



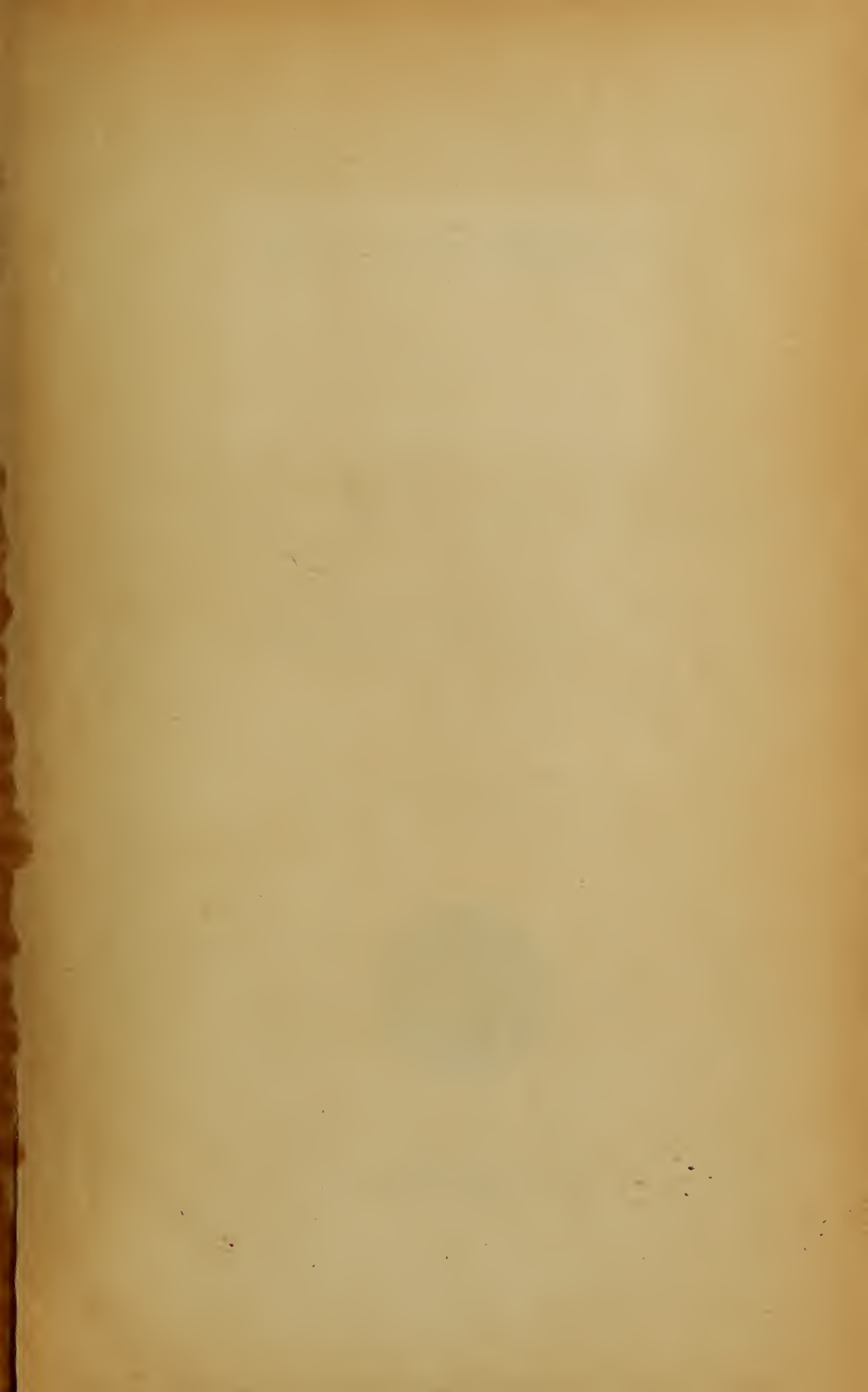
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PROPRIETORS OF THE LOCKS AND CANALS
ON MERRIMACK RIVER,
LOWELL, MASSACHUSETTS.



CITY DOCUMENTS

—OF THE—

CITY OF LOWELL

MASSACHUSETTS

—FOR THE—

YEAR 1910-1911.



LOWELL, MASS.
—COURIER-CITIZEN COMPANY, PRINTERS
1911

EXTRACT FROM THE ORDINANCES OF LOWELL.

CHAPTER VIII.—CITY DOCUMENTS.

SECTION 5. All City Documents (except the Rules and Regulations for the Government of the Police and Fire Departments) shall be printed in pamphlet form of the size of the Annual Report of the School Committee.

SECTION 6. All City Documents shall be bound together in one volume, under the direction of the City Clerk, and three or more copies shall be placed in the City Library, and one copy in the library of the Middlesex Mechanics' Association, one copy shall be sent to each City of the Commonwealth, to the library of the Harvard College, the Public Library of Boston, the State Library, the Smithsonian Institute at Washington, and the Old Residents' Historical Association of Lowell.

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2. Municipal Register, containing Rules and Orders of the City Council, and a list of the Government and Officers of the City of Lowell for 1911.
3. Eighty-fifth Annual Report of the School Committee of Lowell, together with Forty-seventh Annual Report of the Superintendent of Schools, 1910.
4. Auditor's Seventy-fourth Annual Report of the Receipts and Expenditures of the City of Lowell, together with the Treasurer's Account, and the Account of the Commissioners of Sinking Fund, for the financial year ending December 31, 1910.
5. Thirty-eighth Annual Report of the Lowell Water Board, and Reports of the Superintendent of Water Works and the City Engineer to the Water Board for 1910.
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12. Park Commissioners, Seventh Annual Report, December 31, 1910.
13. Report of the Trustees of the City Library for 1910.
14. Report of the City Solicitor for the year ending 1910-11.
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16. Report of the Board of Charity Commissioners, 1910.
17. Report of the Board of Assessors, 1910.
18. List of Jurors for the year 1911.

INAUGURAL ADDRESS

— OF —

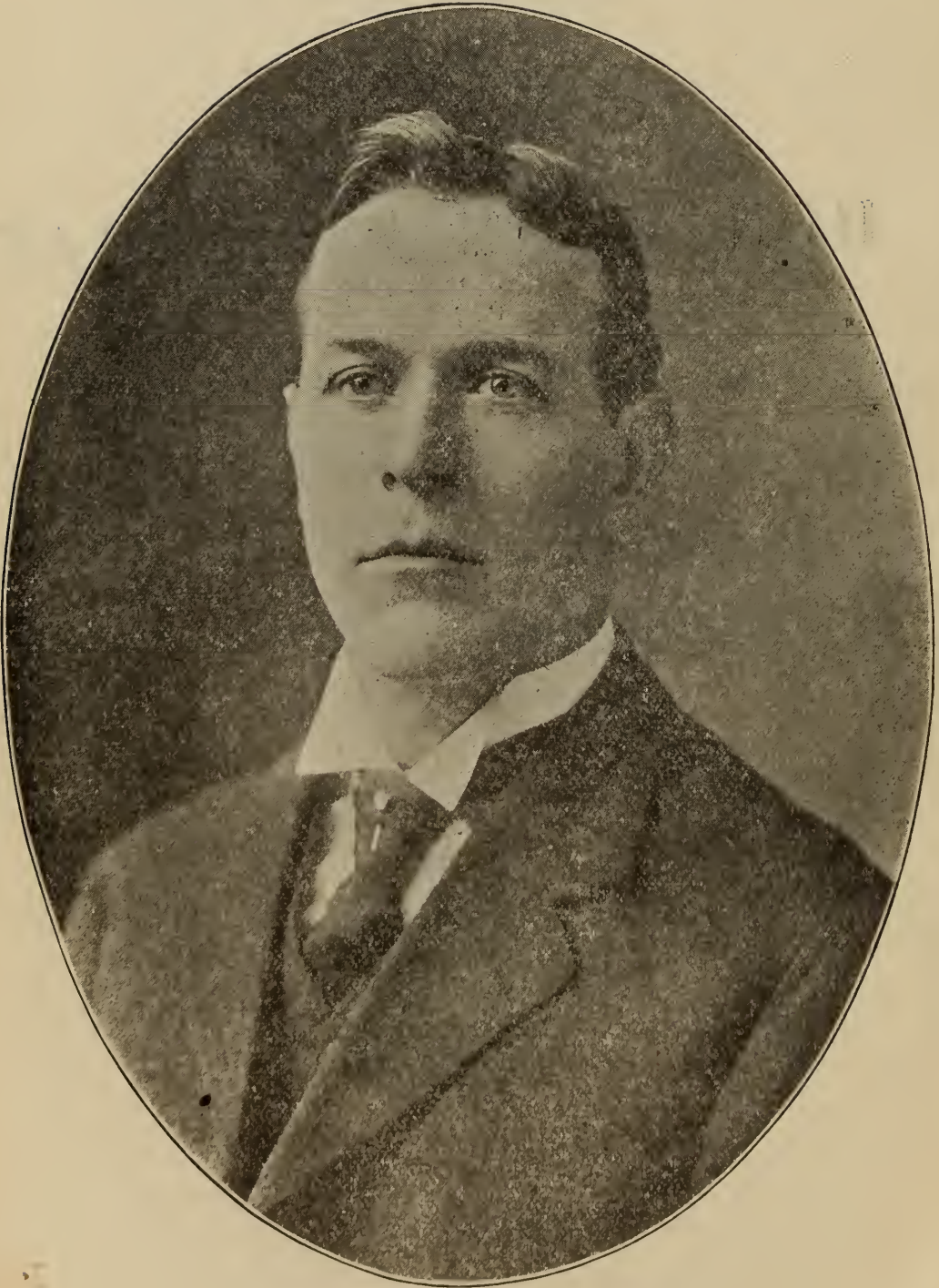
HON. JOHN F. MEEHAN

MAYOR OF LOWELL

1911



LOWELL, MASS.
F. A. M. TOBIN'S PRINTERY
1911



JOHN F. MEEHAN
MAYOR

Inaugural Address

of

Hon. John H. Meehan

GENTLEMEN OF THE CITY COUNCIL:

While custom has made the inauguration mainly a social matter, I would to-day like to bring to your attention that this primarily is the first business meeting of the year of the Corporation of the City of Lowell. We meet here as fellow directors beginning a twelve months' term of office and with responsibilities in a way greater than those borne by our fellow citizens who are directors of the manufacturing corporations of the city.

The directors of the private corporations have hardly more than a few thousand stockholders at the most to serve. We are called upon to serve in excess of 100,000. The plants which they guard are confined within city blocks, but over 12 square miles of land and property are under our charge. Their first obligation is to earn the largest possible cash dividends, ours is not only to show a money gain but to give to our stockholders increased dividends in police, fire, educational and public health conditions. And we are expected to do this and yet maintain and keep the city plant in operation at a reasonable cost.

It is in recognition of these real responsibilities which we have assumed to-day with our oaths of office that I intend in this address to devote myself entirely to business matters. Time was when municipal office was regarded as being honorary rather than executive. Cities were then supposed to thrive by virtue of their environment rather than because of any skill in administration. We have now learned it is not the heritage, no matter how rich a one it may be, but the way it is managed by the officials and the loyalty which the inhabitants give which make for real prosperity. It is on these standards that cities rise or fall. It is not enough to have a fortunate location on a navigable stream or with deep water frontage; it is not enough to have water power or a surrounding rich farming community; it is the honesty of the municipal government and the character of the service which it gives that make for success or failure. That we have learned is the deciding factor when a corporation of any size is considering a possible change in its location. And to win favorable attention we are called upon to show continuity, stability and sincerity in our governmental administration.

LOWELL OF TO-DAY.

It is no mean city which has been given into our hands to-day. Lowell is the fourth city in population in this state and the largest one in Northern New England. We will show this Spring a total valuation in excess of \$80,000,000 and close on \$10,000,000 of actual city assets. Our gross funded debt is only \$3,425,190, while Cam-

bridge, a smaller city, has over \$11,000,000 and New Bedford almost \$5,000,000. Our net debt is only \$2,395,001.05 and we have one of the few cities which can show a steady decrease in its funded debt conditions. Equally important, we can show an increasing public health record, a decrease in police court cases and increased efficiency in the fire and police departments.

During the past year the growth in new buildings has been remarkable, and there has been an increase in the size of the plants of the great manufacturing concerns within our limits. New industries have set smoking the fires in many furnaces, and within the week we have heard of the installing of new work in old mills. As additional evidence we have the growth of our savings bank deposits, the growth in the total of life insurance policies carried, and the crowds of increasing size which fill our shopping streets. With the water power of our city, its position as a trolley and steam railroad center there is no limit to the possibilities before us.

CIVIC ACTIVITIES.

But even with this showing, activity and earnestness are still necessities, and Lowell men and women and city officials must do their full duty before we can come into all we should call our own. Considerable as our progress has been, there is not one of us to-day who can say that we might not have done better. Nothing could be more unfortunate than that we should grow into a state of complacency over our success. Lowell, according to the last census, did climb from the fifth to the fourth place

among Massachusetts cities in population, still I cannot but have the feeling that third place rather than fourth could have been achieved. While in the five years since the last census we grew a little in excess of 11,000, it is with some justifiable jealousy I find that Lynn grew 12,000, Lawrence 15,000 and New Bedford 22,000. It should be a matter of regret to all citizens that this disparity exists, and I have added the figures here for you to read at your leisure in order that you may study it out for yourselves.

City Census	1905	1910
Worcester	128,135	145,986
Fall River	105,762	119,295
Lowell	94,889	106,294
Cambridge	97,434	104,839
New Bedford	74,363	96,652
Lynn	77,042	89,336
Lawrence	70,050	85,982

This is a real problem for our Board of Trade, a problem to be studied and a condition to be corrected. In my own mind I am curious as to whether the explanation cannot be found in part in the artificial barriers which have been erected in many instances between our people of different nationalities. No city can achieve its full growth without the co-operation of all its inhabitants in its governmental functions. Whether the citizenship comes by reason of the accident of birth or is acquired through the process of naturalization is immaterial. It should be our ambition to have every possible inhabitant a legal voter. It is to be regretted that a contrary situation seems to prevail here. With a population of

107,000 the number legally qualified to vote is under 20,000, and we have only some 15,000 registered voters. There are many of that smaller number lax in the exercise of their franchise, and at the last presidential election less than 13,000 votes were cast. Are we to blame for the failure of so many of our workers becoming naturalized voters? Have we devoted ourselves as we should to the problem of winning their interest and aiding them towards the acquiring of citizenship? Has there been a disposition in the past to make government a thing of the few rather than the many without full appreciation of the many nationalities which make up our city total?

Whatever our failings in the past, a bounden duty rests upon our churches, our civic societies, our schools to make special efforts to correct this condition, and the fact that it prevails in other manufacturing communities is no real excuse for Lowell. The population conditions now prevailing are bound to continue, and we should meet them man fashion. They must be corrected.

Here, then, are two specific tasks in which all may join. First, the forwarding of a systematic campaign for the general advancement of Lowell in a business sense. Second, a campaign for the widening of the ranks of citizenship.

The first opens the way for workings of an aggressive Board of Trade or some similar body. It has been found that municipalities of themselves have not the requisite machinery for the booming of new industries. In order to carry on such negotiations a fine commercial sense is required, and trade associations must be depended upon. If our Board goes into this matter earn-

estly, though, there will be no opportunity for side lines, for the struggle among cities for industries has reached a point where every hour of the day is required for this specific labor. It is along this line that I would like to see the Board of Trade, true to its original purpose, sending out an advertisement folder which would set forth the advantages which Lowell really offers. I would like to see its trade committee advocating the use here of a "Made in Lowell" label, which would spread the name abroad. I would like to see a board true to its opportunities, the centre for the reception and investigation of such complaints as business men may make about the gas, the telephone, the electric light rates and charges and their effect on business conditions. Transportation problems in general should come within its scope. The study of demurrage conditions, of trolley and steam rates, of fare and time tables. I can promise now that the city government will be only too glad to co-operate in the forwarding of real business matters.

Citizens in general can assist in the work of bringing all our people within the pale of citizenship. I would like, though, to have the school committee make an immediate study of the best way in which our schools in the evening or at other times can be most available for special educational work for non-citizens. To that end lessons and studies should be provided to ground them in the principles of American government and to impress them with the advantages of citizenship. It may be that the school committee may feel unable to carry the work as far as it would like because of the expense, in which

event I hope to see some of our good citizens come forward with a contribution.

We as directors, though, have specific duties and obligations of our own. The first and most important task before us is the preparing and voting of the department appropriations for the new year.

It is likely that a little later I will send a special message on the general condition of the city finances, but briefly there are certain facts to be now brought to your attention.

We are starting the new year with a greater obligation than ever to practice thrift in our original appropriations as well as in the conduct of the city departments. We are facing a most likely decrease of \$25,000 in our city income by reason of the reduction in license fees from the passage of the Bar and Bottle Bill, and we cannot expect any special increase this year in our state corporation tax return. We will have before us additional demands by reason of the Contagious Hospital, and there are certain departments which have a normal growth which must be cared for.

At no time during the year will we be in the position where there will be any dollars to be carelessly handled. In addition, the committee of the city government of this year will have before it the task of equalling the record of the last city government, which did not issue a dollar of funded debt for current expenses, and which, on the contrary, made a large number of expensive permanent improvements out of current money.

DEPARTMENTAL APPROPRIATIONS.

I have only one foreward to the appropriation committee. Study not only the various requests as made, but the financial condition of the city as a whole. It is the appropriation bill which fixes the tax rate. Every dollar set aside to be spent has to come out of city income or taxes. Indications point to an opportunity to make a substantial reduction in the rate this year, a reduction which is needed, but they can all be nullified by carelessness or extravagance in the work of the appropriation committee. For that reason, while I hope the committee will start promptly on its labors, I have no special sympathy with any ambition to make a record in the small number of meetings required or in the reduction of the time as a whole spent. Better five meetings than three, better ten than five, if more complete knowledge is acquired. While I appreciate the dangers, I am inclined to the belief that certain departments, namely, the Park and Health, should be given special attention. It is but small use to talk of extending work in those directions unless money is provided for that purpose.

DEBTS AND LOANS.

We start this new year with a borrowing capacity of \$494,206.07. This is an increase of some \$133,000 over the amount available last year. This very increase should cause us to be careful. During the year just closed we issued \$100,000 less funded city ordinary debt than was paid—a very good showing. If possible our

aim should be each year to issue a smaller amount than is cancelled. It must be realized that no reduction of the city debt and of the annual sinking fund can be had unless a course of this kind is continued. The privilege of incurring a funded debt is one of the greatest enjoyed by the city government. Our trouble has not been so much the issue of debt itself but its issue for improper purposes, namely, the paying of current expenses. There are new important undertakings which should be started in Lowell and for which debt issue is proper and justifiable, but the tax payers as a whole should be taken into the confidence of the city government so there will be no misunderstanding. I propose to enumerate a few.

ALL YEAR BATH.

I believe that we owe it to the people of Lowell to provide an all-the-year-round bath house and gymnasium. The city is woefully lacking in accommodations of this sort. Even our summer bathing is not conducted under proper conditions, but our failure to make any provision for the cold months of the year is criminal. Public building in the past has always been blocked by the matter of selecting a site, and the natural ambition of each section to have such a structure in its own locality. Let us show during the coming year that we are able to handle this matter in a business fashion. This building I believe should be as near the center of congestion as possible, and I would like that when the time comes to provide a loan, whether it is for \$25,000 or \$30,000, that the entire matter be turned over to the Park Commission for the selection of the site, the deciding on the type of building and its maintenance after erection. Cities which have set up special bath commissions have not found the experiment a wholly happy one.

SMALL PLAYGROUNDS.

The very excellent report of the Park Commission has made it plain that we have made considerable steps toward a large central playfield. The munificence of Mr. Shedd should be remembered by all citizens. There is a great need, though, for small neighborhood playgrounds for the accommodation of the smaller children, many of whom cannot be trusted to make the journey to the larger field. From these I believe that boys over a certain age who are able to go the greater distance should be excluded. These smaller breathing places should be equipped with swings and other play apparatus. All this does not mean any very elaborate expenditure, for to my mind a lot of even 5,000 square feet in the center of dwelling congestion is better than none at all.

I would like to have the appropriation committee consider the advisability of making a loan of \$25,000 for the purchase of such sites. Purchases could have been made ten years ago cheaper than to-day, and can be made to-day at a lower price than ten years from now. It is work which must be done, and there is the chance that once the city begins to go forward along this line that citizens of Lowell will come forward and make contributions either of land or money for this purpose.

SMOOTH PAVING AND SEWERS.

Loans will have to be issued for additional sewers and for new smooth paving work. The expenditures already made for paving have won the approval of citizens in general. The cost of merchandising goods in a city like Lowell is apt to increase out of proportion by reason of any failure to provide a proper teaming surface in the down town sections. The extra dollar tax which the merchant is thus obliged to pay is taken out of the consumer

in the end. At least \$50,000 should be put into the new work this year, and it would be well if an understanding could be reached that a similar amount will be spent every year until the task is well-nigh completed. The sewer work is of course a matter of public necessity.

PUBLIC SERVICE CHARGES.

Lowell, in common with many other cities, is suffering from the burdens imposed on it by reason of the use of the streets by the public service corporations. Many of these, through skilfully-drawn charters, secured their franchises at the beginning with but a minimum of cost, and as years have progressed, by legislative enactment of various amendments, have gradually shifted burdens which they should bear from their shoulders to those of the city. We all have a general acquaintance with the way in which the Locks and Canal Company have carried on this campaign. In addition, the street railway companies in many instances are not living up to all conditions set in the care of their right of way. We are being called on to make special outlay for the construction and maintenance of bridges to meet the special requirements of their heavy-weight cars. There is no need of particularizing further. It is important, though, we should know just where we stand. If it is right for the city to assume these burdens let it be understood. I am contrary minded. It is my present intention, and I hope to have your approval and support, to ask the City Solicitor to make an immediate investigation of the conditions and report as to what can be done either by ordinance or legislation to correct the wrongs and place the burden of the expense where it belongs.

DEPARTMENTAL INCOME.

During the past year it has come to my attention at various times that the volume of our departmental in-

come was woefully small, and that its handling suggested many chances for improvement. At this time, when our city expenses are increasing some 13 per cent., while our assessed valuation has only gone up 11 per cent. in the same period of years, this is an important matter. The entire city income from all sources in 1900 was only \$417,000 and the total income in 1909 was only \$441,000, I am using round figures, an increase not at all satisfactory. Even when this showing is examined after deducting the increase in corporation tax, it appears that the actual increase of income from departments in that period has been approximately only \$4,000.

The city through its many departments during a year supplies many services which are in the nature of favors for the few. This fact has been recognized by the charging of fees. In a number of cases the expense of giving these services has increased, but the fees have not been changed. Is it not about time this matter was studied? It will call for a certain amount of expert knowledge, and with that in mind I propose to appoint the City Treasurer, the City Auditor, the Chairman of the Board of Assessors and the City Clerk as a commission to investigate and report on city income, and also to suggest any changes which may be made in the way of checking and safeguarding it. This commission will have the right to call on the City Solicitor for assistance. Inasmuch as the men named are all city employees, no additional cost of any size should be entailed by this investigation, and it should result in great profit to the city.

HUNTINGTON HALL.

The need for a public hall becomes more pressing every day. For that reason the delay is harder to bear. It is important that something be done in short

order to bring about a settlement. The causes which have led to the delay are immaterial now. We are rather looking for the best possible way in which the hall can be secured. Our sole purpose is naturally to give to Lowell people the type of hall they want and where the majority want it, but it would be well now to find some means for securing a straight-out public expression on the location.

THE 75TH ANNIVERSARY.

This year Lowell observes the 75th anniversary of her incorporation as a city. It is proper the event should be noted in a dignified manner. The City Council will no doubt later be asked to take some formal steps. I would like to suggest that it may be considered advisable to have the celebration take place in the early summer rather than at the exact date, because of weather conditions. The central feature of the city observance should I feel be a public meeting to be held in a suitable hall, at which a native son of Lowell should deliver the principal address. The schools should also note the day by special observances, the singing by the children and the citing of facts in the history of Lowell. The project which has been advanced for an exposition of goods made in Lowell is very attractive. The city will lend its endorsement, though it is presumed that this will be carried on by the merchants themselves.

CITY CHARTER.

The right of the people of a community to change their form of government cannot be questioned by any elective officer. Yet from my experience as Mayor and as a member of the Legislature I think it is well to call the attention of the people to one positive and well-estab-

lished fact, that no perfect government can be developed by legislative enactment. It is men, not measures, which make a municipality. The suggested plan for the abolition of the popular chambers of the city government and the substitution of a small commission does not appeal to me as the right step. It tends to a government of the few as against the many, and is undemocratic, using that phrase in its broadest sense.

CONCLUSION.

Gentlemen, the year before us is great in its possibilities. The honor which has been conferred upon us by our fellow citizens cannot be held too highly. The oaths of office which we have taken carry with them genuine responsibilities. One can be forgiven perhaps for growing a little sentimental at such a time. Before us there is a long array of city governments which have existed since the incorporation of the city, and among the men who have filled these offices will be found inspiration for all. In their way they were working for the great future of which we are now a part, even as we are working for a future that our children will be figures in. No matter what the manner of our election, our obligation is now to the whole people of Lowell. Times and methods have changed, but the man who does his duty in sincerity need have no fear of the final judgment to be passed upon his actions. Let each of us be true to his ideals, and there will be no fear but we will be true to the best interests of Lowell.

MUNICIPAL REGISTER
CONTAINING
RULES AND ORDERS
OF THE
CITY COUNCIL
AND A LIST OF THE
GOVERNMENT AND OFFICERS
OF THE
CITY OF LOWELL
1911



LOWELL, MASS.
THE UNION PRINTING COMPANY
67 MIDDLE STREET
1911

JOINT RULES AND ORDERS OF THE CITY COUNCIL

1. In the month of January, and not later than the second regular meeting after organization of each branch of the City Council, joint standing committees shall be appointed as follows:

- A COMMITTEE ON CLAIMS.
- A COMMITTEE ON EDUCATION.
- A COMMITTEE ON FIRE DEPARTMENT.
- A COMMITTEE ON LANDS AND BUILDINGS.
- A COMMITTEE ON MILITARY AFFAIRS.
- A COMMITTEE ON ORDINANCES AND LEGISLATION.
- A COMMITTEE ON PRINTING.
- A COMMITTEE ON STREETS.
- A COMMITTEE ON FIREARMS.
- A COMMITTEE ON INDUSTRIES.

Each committee shall consist of two Aldermen and three members of the Common Council, except the Committee on Streets, which shall consist of two Aldermen and five members of the Common Council.

2. Each board shall, in such manner as it may determine, select its own members for any joint committee.

3. In all joint standing committees, except that on Finance, the member first named in the Board of Aldermen shall be chairman; on the Committee on Finance, the member first named in the Common Council shall be chairman; and in all joint special committees, the member first named in the board where the business originates shall be chairman, and shall call the committee together.

4. Reports of committees shall be made to the board first meeting after such reports are prepared and signed.

5. No committee shall act by separate consultation, and no report shall be received unless agreed to in committee actually assembled.

6. It shall be the duty of every joint committee (the Committee on Streets excepted), to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.

7. The by-laws of the city shall be termed ordinances ; the enacting clause of which shall be — Be it ordained by the City Council of the City of Lowell, as follows : In all votes by which either or both branches of the City Council express anything by command, the form of expression shall be, Ordered; and whenever either or both branches express opinions, principles, facts or purposes, the form shall be, Resolved.

8. An ordinance may originate in either board, and shall be considered in three several stages. It shall first be read for information, and the question shall then be on ordering it to the Joint Standing Committee on Ordinances and Legislation, and then sent to the other branch for concurrence. When reported back, the recommendations of the committee shall first be acted on. If it shall then be ordered to a second reading, it shall next be examined by a standing committee of that board, who shall see that it is drawn in proper form. When returned by such committee, the question shall be on ordering it to be enrolled. If so ordered, it shall then be sent to the other board, where the same order of proceedings shall be observed. When it has been ordered by both branches to be enrolled, it shall be enrolled by the Clerk of the Common Council, and shall be by him submitted to the proper committee of that board to ascertain if it has been correctly enrolled. If so reported, the question shall be on passing it to be ordained. If it shall so pass, it shall be signed by the President of the Common Council, and be sent to the Board

of Aldermen, where it shall take a like course. If passed to be ordained in that Board, it shall be signed by the Chairman of the Board of Aldermen and sent to the Mayor for his approval.

9. An ordinance may be rejected in any stage, but may not pass through all its stages in the same day. Each board shall transmit to the other all papers on which any ordinance, joint resolution, or order shall be founded; and all papers on their passage between the two boards, shall be under the signature of their respective clerks, except ordinances and joint resolutions in their last stage, which shall be signed by the presiding officer. If papers come before either board which have been duly acted upon in the other board, the presiding officer shall so state without reading the endorsements of the clerk, unless the latter are called for.

10. All enrolled ordinances shall be written in a fair and legible hand, or typewritten, provided a permanent record ribbon is used, without interlineations or erasures, and no enrolled ordinance or resolution shall be amended.

11. Every joint resolution shall be read in the board in which it is introduced, and the question shall be upon ordering it to a second reading. If so ordered, the question shall then be upon its passage. If passed, it shall be sent to the other board, where the order of proceeding shall be the same. When passed by both boards, the resolution shall be presented to the Mayor for his approval, and when the same shall be in force, shall be enrolled by the clerk of the Common Council, and when found correctly enrolled as provided in the case of an ordinance, it shall be signed by the President of the Common Council and the Chairman of the Board of Aldermen, and be presented to the Mayor for his signature if he approved the original.

12. Joint orders shall require but one reading, and when adopted, shall be sent to the Mayor for his approval, except where they relate to a question of a convention of the two branches, or the election of any officer.

13. When either board does not concur with the other in any ordinance or resolution sent from the other, notices of such non-concurrence shall be given by a written message.

14. In any case of non-concurrence, each board may appoint a Committee of Conference. Such committee shall consist, in each case, of three members who support the vote of their own board. These two committees may meet jointly or separately, and a majority of each shall decide its action.

15. All reports and other papers submitted to the City Council shall be written in a fair hand, or typewritten, provided a permanent record ribbon is used, without endorsement, except in case of the introduction of an order or resolution. In such a case the member introducing an order or resolution shall subscribe his name at the bottom of the back of the same. All other endorsements upon the back of papers shall be made by the clerk; and the clerks of the boards respectively, shall, on seasonable notice, make copies of any papers to be reported by committees, at the request of the respective chairmen thereof.

16. No business shall be transacted by the City Council in convention, except such as shall have been previously agreed on, unless by unanimous consent.

17. In balloting in joint convention, blanks shall be reported but not counted as votes.

18. When both boards are in session at the same time, neither shall adjourn without giving notice to the other of its intention.

19. All petitions, reports, or other papers of whatever description, relating to business requiring the concurrent action of both boards of the City Council, shall be submitted by committees to the clerk of each board at least twenty-four hours before the time of meeting of either board, and the clerk of each board shall prepare a brief synopsis of all matters to be acted upon, and place the same on the desk of each member of the

City Council prior to the hour of opening the meeting. No reports or orders not previously furnished as herein described, shall be considered in either branch unless two-thirds of the members present consent thereto.

20. These rules may be suspended for a specific purpose, or amended, whenever twenty-four members of a joint convention of the two branches shall so direct, or whenever a joint order to that effect shall be passed by the votes of six members of the Board of Aldermen and eighteen members of the Common Council.

21. No resolution for the extension and laying out of any street or public highway shall be passed to a second reading by either branch of the City Council until the City Civil Engineer shall certify to the council that said street or highway is fully completed, and graded to the grades named in the resolution, without expense to the city.

22. A yea and nay vote of the members of the City Council shall be required to pass any order or vote involving the expenditure or the appropriation of the public moneys, or involving any debt or liability, and such vote shall be entered upon the records of each branch of the City Council.

23. Less than a quorum of each branch of the City Council may adjourn to a fixed day earlier than the regular meeting, and shall have power to compel the attendance of all absent members in such manner as the City Council may by ordinance provide.

24. In the absence of rules governing both boards of the City Council, Cushing's Manual shall decide the point.

RULES AND ORDERS OF THE BOARD OF ALDERMEN

1. At the appointed time the presiding officer shall take the chair, and on the appearance of a quorum, proceed to business.

2. The order of business shall be as follows :

First—At all regular meetings the journal of the last regular meeting and all intervening meetings of the board shall be approved without reading, unless the reading be called for by some member of the board.

Second—Petitions and similar papers.

Third—Appointments, elections, etc.

Fourth—New business, which, unless otherwise ordered, will take its place at the foot of Orders of the Day.

Fifth—Orders of the Day, consisting of unfinished business of the last previous meeting, papers from the Common Council and such matters as have been introduced as new business. By a vote of six members, any matter in the Orders of the Day may at any time be taken up for immediate consideration.

3. The presiding officer shall decide all points of order, subject to appeal. He may read while sitting, but must rise to put a question. He shall allow debate on a question until the vote has been declared, but not on the verification of a vote; and on demand of two members shall take every vote by yeas and nays.

4. When a question is under debate, the presiding officer shall receive no motion but to adjourn, to take up a special

assignment, to lay on the table, to postpone to a day certain, to commit, to amend, or to postpone indefinitely. These several motions shall have precedence in the foregoing order, and debate upon any of them shall be confined to the actual motion, and shall not go into the merits of the main question, except on amendment.

5. When a vote has passed, except for adjournment or to lay on the table, any member voting with the majority may move a reconsideration, to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration, to be acted upon at the next meeting, which latter motion shall have priority, if made before the motion first mentioned shall have been decided. Provided, however, that no motion of reconsideration made by a member voting with the minority shall be received on any subsidiary or incidental question. No motion shall be twice reconsidered.

6. No member shall be interrupted while speaking, but by a call to order, or for the correction of a mistake ; nor shall there be any conversation among the members while a paper is being read, or a question stated from the chair.

7. When any member is about to speak in debate, he shall rise in his place and respectfully address the presiding officer, shall confine himself to the question under debate, and avoid personality.

8. In the month of January the following committees shall be appointed :

A COMMITTEE ON BILLS IN SECOND READING.

A COMMITTEE ON ELECTRIC WIRES.

A COMMITTEE ON ENROLLMENT.

A COMMITTEE ON LICENSES.

A COMMITTEE ON LIGHTING STREETS.

A COMMITTEE ON SEWERS.

A COMMITTEE ON WEIGHTS AND MEASURES.

A COMMITTEE ON STATE AID.

The committees on Licenses, on Sewers, and on Electric Wires shall consist of three members each; the other committees shall be composed of two each.

9. Every member present shall be held obliged to vote on all questions, and not to leave without permission, if his presence is necessary to make a quorum.

10. The clerk shall prepare, for the use of the board, a copy of the Orders of the Day, to which shall be added a list of matters laid on the table or postponed to a day certain.

11. When a reference is proposed to more than one committee the question shall first be upon a standing committee of the board, then a special committee, then a joint standing committee, and last a joint special committee.

12. These rules may be amended or suspended whenever two-thirds of the members present may so vote; but a motion to amend shall not be made and finally acted upon at the same meeting.

13. All nominations shall lie on the table three days at least before action thereon by the board.

14. All papers, of whatever description, which may require action by the board, shall be presented to the City Clerk not later than the hour of noon on the day of each regular meeting. Petitions, reports and other papers, presented after that hour on such day, will not be considered until the next meeting.

RULES AND ORDERS OF THE COMMON COUNCIL

1. Upon the arrival of the hour fixed upon for the meeting the President shall call for order, and within ten minutes (or sooner, if a quorum be present), cause the clerk to call the roll and report to him the number present, and the number absent, which information he shall, in turn, announce to the body. In the absence of the President, the eldest senior member shall call to order and preside until a President pro tempore is chosen.

2. The President shall preserve order and decorum. He may speak to points of order in preference to other members, rising for that purpose. He shall decide questions of order, subject to appeal, but shall entertain no discussion on the merits of his ruling.

3. While addressing the body the President shall stand, but he may read or put questions while sitting.

4. The President shall declare all votes, and, if a vote be doubted, he shall, without permitting further debate require the members voting in the affirmative to rise and remain standing until they are counted by the clerk; then he shall require the members voting in the negative to rise and remain standing until they are counted by the clerk, and he shall thereupon on information from said clerk, declare the result.

5. The President may call any member to the chair, but such substitution shall not extend beyond an adjournment, and when out of the chair he may express his opinion on any subject under debate, but he must not resume the chair while the same question is pending.

6. All questions shall be propounded by the President in the order in which they are moved, unless the subsequent motion be previous in its nature.

7. After a motion is stated by the President, it shall be disposed of by a vote of the body, unless the mover (no objection being offered), withdraws it before a decision or amendment.

8. A motion to adjourn shall always be in order, unless the body is engaged in voting.

9. The previous question shall be in this form: "Shall the main question be now put?" It shall only be admitted when demanded by a majority of members present, and until it is decided, shall preclude all amendment and debate of the main question.

10. The yeas and nays shall be taken on any question upon demand of one-third of the members present.

11. When two or more members rise at the same time, the President shall name the member who shall speak first.

12. Every motion shall be reduced to writing, if the President or any member requires it.

13. When a question is under debate, no motion shall be received but to adjourn, to lay on the table, for the previous question, to postpone to a day certain, to commit, to amend, or to postpone indefinitely; which several motions shall have precedence in the order in which they are arranged; and no motion to postpone or commit shall be allowed twice in the same day, in the same stage of the ordinance or proposition, nor shall a vote on any subsidiary or incidental motion be reconsidered, except a motion to that effect be made and be acted upon at the same meeting at which the vote was decided.

14. When any member is about to speak in debate, or deliver any matter to the body, he shall rise and respectfully address the presiding officer, confine himself to the question and avoid personality.

15. During debate no member shall be mentioned by name, but he may be described by such other designation as may be intelligible and respectful.

16. No member, while speaking, shall be interrupted by another, but by a call to order or to correct a mistake. If any member, in speaking or otherwise, transgresses the rules of the body, the President shall, or any member may, call him to order; in which case the member so called to order shall immediately be seated until the question of order is decided. If the decision be in favor of the member called to order, he shall be at liberty to proceed; if otherwise, he shall not proceed without leave of the body.

17. No member shall speak more than twice to the same question without obtaining leave of the body.

18. Whilst the President is speaking, no member shall pass between him and the body, and while a member is speaking no person shall pass between him and the President; nor shall any person rise in front of a speaking member except to raise a point of order.

19. When a question has been decided, any member voting with the majority may move a reconsideration to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration to be acted upon at the next meeting, which latter motion shall have priority, if made before the motion first mentioned shall have been decided. No vote or question shall be twice reconsidered.

20. Every member present when a question is put shall, unless for specific reasons, excused by a majority of the members, give his vote. But in the election of any city officer, he may decline to vote, as provided in Section 7, Chapter 26, of the Revised Laws. And no member shall leave without permission, if his presence is necessary to make a quorum.

21. No motion or proposition, on a subject different from that under consideration, shall be admitted under color of an amendment.

22. All reports may be committed or recommitted at the pleasure of the body.

23. The division of a question may be called for when the sense will admit of it.

24. A majority vote shall be necessary to sustain objection to the reading of a paper.

25. No standing order shall be suspended, except by a two-thirds vote of the members present; nor shall any rule or order governing the body be repealed or amended without one day's notice, nor unless fourteen members concur therein.

26. The order of business shall be as follows :

- 1—Roll call.
- 2—Reading of records.
- 3—Papers from the Board of Aldermen.
- 4—Communications and reports from city officials.
- 5—Presentation of petitions, remonstrances and memorials.
- 6—Reports of Committees.
- 7—Unfinished business of preceding meetings.
- 8—Motions, orders or resolutions:

The above order of business shall not be departed from, except by vote of a majority of the members present, but the body may appoint a committee of two to approve the records of the clerk during the year, and if such a committee is appointed, the reading of the records shall be omitted, unless called for by one-third of the members present.

27. The seats of the Common Council shall be numbered and determined by lot, and no member shall change his seat but by permission of the President.

28. All committees, except such as the body determines to select by ballot, or such as may be required by statute to be voted for, shall be appointed by the President, and the political minority shall be represented by at least one member.

29. No member shall be obliged to serve on more than two committees at the same time, or be chairman of more than one.

30. All memorials and other papers addressed to the body shall be presented by the President, or by a member in his place, who shall explain the subject thereof; and they shall be taken up in the order in which they were presented, unless the body shall otherwise direct.

31. Standing committees shall be appointed on the following subjects :

On Second Reading of Bills and Ordinances.

On Enrollment.

On Elections and Returns.

32. No committee shall sit during a session of the body, without special leave, except the Committee on the Second Reading of Bills and Ordinances and the Committee on Enrollment.

33. These rules shall be observed in the Committee of the Whole, so far as they are applicable, except Rule 17.

34. When a committee is nominated by the chair, the person first named shall be chairman. In the election of committees, except on finance, when a chairman is not specially chosen, the person having the highest number of votes shall act as chairman; and in case of an equality in votes between two or more members of a committee, the members thereof shall choose a chairman.

35. All committees shall consist of three members, unless otherwise specially provided for; and no report shall be received

from any committee unless agreed to in committee actually assembled ; and reports shall be in writing, unless otherwise ordered.

36. It shall be the duty of every committee to whom any subject may be specially referred, to report thereon within five weeks, unless further time is previously asked for and granted.

37. Members of the body may attend any meeting of any of its committees, but shall not vote thereat.

38. All ordinances and resolutions shall have two several readings before they shall be finally passed. See Joint Rules 7 and 8.

39. All ordinances after being read a second time shall be referred to the Committee on the Second Reading of Bills and Ordinances, and after being reported upon by said committee, shall be again read, after which the question shall be on passing the same to be enrolled.

40. No ordinance or resolution imposing penalties, or authorizing the expenditure of money, shall have more than one reading the same day.

41. Any member offering a resolution or order shall write his name on the bottom of the back of such paper.

42. All city officers shall be voted for in accordance with Section 7, Chapter 26, of the Revised Laws.

43. The clerk shall keep brief minutes of the votes and proceedings of the body, entering thereon all accepted resolutions ; shall notice reports and memorials, and other papers submitted to the board, only by their titles or by a brief description of their purport.

44. The clerk shall keep the record of committees that may require that service ; and on the appointment of every standing committee, a book for records shall be provided by

its chairman, or by said clerk. The clerk shall have the custody of all minutes by him kept ; and the records of the several committees shall be open to the inspection of members of the City Council.

45. With the exception of an order for a joint convention, any joint order or resolution originating in the Common Council, shall be copied, and shall, previous to the hour for calling the meeting to order, be posted by the clerk in some prominent place in the Common Council chamber or coat room, where it may be open to the inspection of members.

46. All orders, resolutions, reports, petitions, or other papers (except communications), requiring concurrent action, or action by this body only, shall be filed by members in the office of the City Clerk at least twenty-four hours before the time set for the meeting of the body ; also all reports or papers from committees.

47. No paper entered in violation of the preceding rule shall be considered except by unanimous consent.

48. The clerk shall, previous to each regular or special meeting, prepare, in the sequence of the order of business, a brief synopsis of all matters to be acted upon, and place, or cause to be placed, on the desk of each member, a copy of the same, prior to the hour designated for calling such meeting to order.

49. "Cushing's Manual" shall be authority on all questions of debate or parliamentary usage, when the same does not conflict with the rules and orders of this body.

50. A copy of "Cushing's Manual" shall, at all times, during the sessions of this body, be on the desk of the President.

CITY COUNCIL AND COMMITTEES FOR 1911

Mayor

JOHN F. MEEHAN228 Worthen Street

Aldermen

ANDREW E. BARRETT77 Mt. Vernon Street
JAMES A. BURNS41 Riverside Avenue
JEREMIAH F. CONNORS253 Concord Street
JOHN W. DALY76 Andrews Street
JAMES J. FLANAGAN186 Pleasant Street
JAMES J. GALLAGHER.....168 Cumberland Road
JOSEPH H. JODOIN, JR.....6 Cross Street
ALEXANDER E. ROUNTREE96 Wentworth Avenue
HERCULE A. TOUPIN320 Hildreth Street
JAMES J. GALLAGHERChairman
STEPHEN FLYNNClerk

Common Councilmen

Ward One

GEORGE H. ALLARD, JR.....237 Appleton Street
ROBERT S. FULTON.....27 Myrtle Street
HARRY C. TAYLOR.....29 Twelfth Street

Ward Two

JOHN J. BRADY38 Suffolk Street
DENNIS MAHONEY.....276 Adams Street
GARRETT G. ROYAL.....362 Broadway

Ward Three

ADELARD BERARD577 Middlesex Street
ALBERT G. CHENEY.....60 Sheldon Street
WILLIAM T. DAVIS32 Lane Street

Ward Four

JOHN J. COUGHLIN4 Pollard Street
THOMAS DONOHUE16 Keene Street
WILLIAM J. GARGAN36 Crosby Street

Ward Five

FRANCIS A. CONNOR.....73 Pleasant Street
THOMAS J. CORBETT.....83 Lawrence Street
BERNARD J. TRACEY.....15 Abbott Street

Ward Six

HENRY ACHIN, JR.....90 Aiken Street
CHARLES A. DELARONDE128 Lilley Avenue
CHARLES B. ROGERS192 Cumberland Road

Ward Seven

THOMAS CHADWICK102 White Street
WILLIAM L. CROWLEY453 Riverside Street
ARTHUR GENEST.....111 Gershom Avenue

Ward Eight

JOSEPH W. BOWERS660 Princeton Street
HERBERT E. ELLIOTT.....56½ Washington Street
ORRIN B. RANLETT, 2D95 Sanders Avenue

Ward Nine

HERBERT L. CHAPMAN.....364 East Merrimack Street
JOHN JACOB ROGERS444 Andover Street
HARRY H. WHITTET50 Wentworth Avenue
HERBERT E. ELLIOTTPresident
FRANK M. DOWLINGClerk

MEETINGS OF THE CITY COUNCIL

The regular meetings of both branches of the City Council are held at the City Hall as follows :

Aldermen

First and Third Tuesdays of each month except August.

January.....	3 and 17	July (Wednesday)	5 and 18
February	7 and 21	September	5 and 19
March	7 and 21	October.....	3 and 17
April	4 and 18	November	7 and 21
May	2 and 16	December.....	5 and 19
June	6 and 20		

At 8 P. M.

Councilmen

Second and Fourth Tuesdays in each month except August.

January	10 and 24	July	11 and 25
February	14 and 28	September	12 and 26
March	14 and 28	October.....	10 and 24
April	11 and 25	November	14 and 28
May	9 and 23	December.....	12 and 26
June	13 and 27		

At 8 P. M.

Joint Standing Committees

ACCOUNTS—Alderman Barrett ; Councilmen Fulton and Achin.

APPROPRIATIONS—Aldermen Gallagher, Daly and Flanagan ; Councilmen Chapman, Elliott, Fulton and Tracey.

CLAIMS—Aldermen Rountree and Burns ; Councilmen Delaronde, C. B. Rogers and Donohoe.

EDUCATION—Aldermen Barrett and Rountree ; Councilmen Chadwick, Crowley and J. J. Rogers.

FINANCE—Mayor John F. Meehan and Alderman Toupin ; Councilmen Chapman (Chairman), Genest and Gargan.

FIRE DEPARTMENT—Aldermen Jodoin and Flanagan ; Councilmen Achin, Cheney and Gargan.

INDUSTRIES—Aldermen Daly and Jodoin ; Councilmen Allard, Coughlin and Taylor.

LANDS AND BUILDINGS—Aldermen Toupin and Burns ; Councilmen Berard, Royal and Whittet.

MILITARY AFFAIRS—Aldermen Daly and Gallagher ; Councilmen J. J. Rogers, C. B. Rogers and Mahoney.

ORDINANCES AND LEGISLATION—Aldermen Jodoin and Flanagan ; Councilmen Allard, Chadwick and Connor.

PRINTING—Aldermen Toupin and Rountree ; Councilmen Chapman, Mahoney and Taylor.

STREETS—Aldermen Barrett and Connors ; Councilmen Bowers, Davis, Elliott, Genest and Brady.

Standing Committees of the Board of Aldermen

BILLS IN SECOND READING—Aldermen Flanagan and Barrett.

ELECTRIC WIRES—Aldermen Burns, Connors and Daly.

ENROLLMENT—Aldermen Burns and Jodoin.

LICENSES—Aldermen Toupin, Barrett and Connors.

LIGHTING STREETS—Aldermen Connors and Toupin.

SEWERS—Aldermen Rountree, Jodoin and Daly.

STATE AID—Aldermen Rountree and Jodoin.

WEIGHTS AND MEASURES—Aldermen Connors and Gallagher.

Standing Committees of the Common Council

BILLS IN SECOND READING—Councilmen Ranlett, Fulton and Coughlin.

CLERK'S RECORD—Councilmen Davis and Tracey.

ELECTIONS AND RETURNS—Councilmen Chapman, Delaronde and Donohoe.

ENROLLMENT—Councilmen Cheney, Corbett and Ranlett.

RULES—Councilmen Bowers and Corbett.

CITY OFFICERS FOR 1911

Mayor

JOHN F. MEEHAN.....Office, City Hall
Chosen at City Election, the second Tuesday in December.

City Clerk

STEPHEN FLYNNOffice, City Hall
Chosen by the City Council in convention in January. Term expires
first Monday in January, or when successor is chosen. City Charter, Sect.
17, Ord., Chap. 8.

Assistant City Clerk

WILLIAM P. MCCARTHYOffice, City Hall
Appointed by the City Clerk, subject to approval of the Board of
Aldermen. R. L. Chap. 26, Sect. 16, Ord., Chap. 8.

Clerk of Committees

FRANK M. DOWLINGOffice, City Hall
Term expires 1913
Chosen by concurrent vote in January for the term of three years.
Ord. 1900.

City Treasurer and Collector of Taxes

ANDREW G. STILES.....Office, City Hall
Chosen by the City Council in convention in January for one year from
the first day of April, or until successor is chosen. City Charter, Sect. 17,
Ord., Chap. 9.

Auditor of Accounts

CHARLES D. PAIGE.....Office, City Hall
Term expires April 1, 1912

Chosen by concurrent vote in January or February for three years from the first day of April, or until successor is chosen. Chap. 373, Acts of 1905.

Superintendent of Streets

NEWELL F. PUTNAMOffice, City Hall
Chosen by concurrent vote in January or February. Term expires first Monday in January, or when successor is chosen. Ord., Chap. 39, Sect. 1.

Chief of Department of Supplies

EDWARD H. FOYEOffice, City Hall
Chosen at annual city election. Sect. 3, Chap. 415, Acts of 1896.

Civil Engineer for the City

STEPHEN KEARNEYOffice, City Hall
Chosen by concurrent vote in January or February for one year from the first day of April, or until his successor is chosen. Ord., Chap. 13, Sect. 1.

City Solicitor

WILLIAM W. DUNCANOffice, City Hall
Chosen by concurrent vote in January or February for one year from the first day of March, or until his successor is chosen. Ord., Chap. 11, Sect. 1.

City Messenger

JOSEPH E. PATTEEOffice, City Hall
Chosen by concurrent vote in January for one year from the first Monday in February or until his successor is chosen. Ord., Chap. 10, Sect. 1.

Board of Park Commissioners

HON. JOHN E. DRURY (Secretary).....Term expires 1912
 HON. JOHN J. PICKMAN (Chairman).....Term expires 1913
 HARVEY B. GREENETerm expires 1914
 THALLES P. HALLTerm expires 1915
 HENRY F. CARRTerm expires 1916

One member appointed annually by the Mayor with the approval of the City Council, for a term of five years from the first Monday in May. Revised Laws, Chap. 28.

CHARLES A. WHITTET.Superintendent

Trustees of City Library

JOHN F. MEEHAN, Chairman Ex-Officio..... Mayor
 MRS. ROWENA PALMERTerm expires 1912
 FRANK P. PUTMAN, Vice-ChairmanTerm expires 1913
 CHARLES E. HOWETerm expires 1914
 DR. EDWARD J. WELCHTerm expires 1915
 HUGH J. MOLLOYTerm expires 1916

FREDERICK A. CHASELibrarian and Clerk

One appointed by the Mayor in December for term of five years commencing the second Monday in January, or until successor is appointed. Chap. 231, Acts of 1888. Ordinances, Chap. 14.

Regular meeting last Tuesday in each month.

Huntington Hall Commission

JOHN F. MEEHAN, Ex-Officio Mayor
 CHARLES S. PROCTOR, Secretary HENRY L. ROURKE
 HENRY RUNELS FRANK W. HURD

Appointed by City Council to acquire a site and build a public hall. Ordinance approved May 15, 1906.

Contagious Hospital Commission

G. FORREST MARTIN, M. D..... Chairman
 JAMES J. McCARTY, M. D. JOSEPH E. LAMOUREUX, M. D.
 JOHN W. ROBINSON

Inspector of Buildings

JAMES DOWOffice, City Hall
 Chosen by concurrent vote in January for one year. Ord. approved Aug. 3, 1906, Sect. 3.

City Physician

DR. FORSTER H. SMITHTerm expires Dec. 1, 1911
Office, 832 Merrimack Street

Chosen by concurrent vote in October or November for term of three years from first day of December. Ord. approved Dec. 9, 1905.

Trustees of Public Burial Grounds

MELVIN B. SMITHTerm expires April 9, 1912
RICHARD A. GRIFFITHS.....Term expires April 9, 1913
WILLIAM H. WILSON, ChairmanTerm expires April 9, 1914
CHARLES A. GALE, SecretaryTerm expires April 9, 1915
ALBERT F. GRANTTerm expires April 9, 1916
ROBERT J. GILMORESuperintendent

One Trustee appointed by the Mayor annually in April for term of five years. Chap. 242, Acts of 1907.

Assessors of Taxes

*ABEL WHEELERTerm expires 1911
†SOLOMON S. MAYBERRYTerm expires 1911
C. ARTHUR ABBOTT.....Term expires 1912
ALBERT J. BLAZONTerm expires 1913
WILLIAM J. REARDONClerk

Temporary Assistant Assessors of Taxes

RICHARD CHARLTON	WILLIAM A. PARTHENAIS
EDWARD T. GOWARD	GEORGE W. PETERSON
MICHAEL BOURDON	JAMES J. REDMOND
EDMUND J. CHENEY	CORNELIUS F. CRONIN
FRANK GRAY	JOHN M. RYAN
JOHN E. McCORMICK	THOMAS P. McGOVERN

Assessors :—One chosen by concurrent vote of the City Council annually in January or February for the term of three years from the first Monday in January, or until successor is chosen.

Temporary Assistant Assessors:—Appointed by the Assessors. Ord., Chap. 3. Amended Ord. approved April 23, 1908.

Inspector of Wires

WILLIAM H. MAHAN.....Term expires Feb. 1, 1913
Appointed by Mayor and Aldermen in January for term of three years.
Ord. approved July 15, 1898.

*Died, May 9, 1910. †Elected to fill vacancy.

Board of Charities

DR. JAMES J. McCARTY.....Chairman
 JOHN F. BURNSTerm expires Jan. 15, 1912
 HARRY W. J. HOWETerm expires Jan. 15, 1913
 FRANK RICARDTerm expires Jan. 15, 1914
 DR. JAMES J. McCARTYTerm expires Jan. 15, 1915
 MATTHEW COUPE.....Term expires Jan. 15, 1916

One member appointed by the Mayor annually, before the fifteenth day of January for a term of five years from said fifteenth day of January. Chap. 337, Acts of 1905.

Superintendent

MARTIN F. CONLEYOffice, City Hall
 Residence at City Hospital

District and Dispensary Physicians

DISTRICT 1—Dr. T. J. Halloran8 Runels Building
 DISTRICT 2—Dr. A. J. Halpin.....26 Central St.
 DISTRICT 3—Dr. James E. Leary Associate Building
 DISTRICT 4—Dr. A. E. Gillard.....32 John St.
 DISTRICT 5—Dr. D. S. Bellehumeur.....813 Merrimack St.
 DISTRICT 6—Dr. Alexis E. Bertrand.....1 Runels Building

City Dispensary

City Hall

EDWIN F. MASONClerk
 Open week days 9 A. M. to 1 P. M., 2.30 to 5 P. M.

Water Board

OFFICE, CITY HALL

ROBERT W. VAN TASSELL.....President
 ROBERT W. VAN TASSELLTerm expires 1912
 JAMES McDOWELLTerm expires 1913
 JAMES G. HILL.....Term expires 1914
 JAMES F. FURLONG.....Term expires 1915
 JOHN W. CRAWFORDClerk
 ROBERT J. THOMASSuperintendent

The members of the Water Board are chosen by concurrent vote in January or February for a term of four years from second Monday in March following their election, one member retiring annually.

The Superintendent is chosen in March by the Board.

The Clerk is chosen by the Board in June. Ord. Chap. 45.

HOURS : 9 A. M. to 5 P. M.

Commissioners of Sinking Funds

FRED A. BUTTRICK.....Term expires Jan. 1, 1912
 CHARLES L. KNAPPTerm expires Jan. 1, 1913
 AUSTIN K. CHADWICK.....Term expires Jan. 1, 1914
 ANDREW G. STILESSecretary and Treasurer

One member elected annually by the City Council in December for three years, commencing January first. Revised Laws, Chap. 27, Sect. 14.

Board of Civil Service Examiners

JOSEPH SMITHChairman
 JOHN J. COLTON, M. D. JOSEPH SMITH
 Appointed by State Civil Service Commissioners.

Superintendent of State Aid and Agent for the Burial of Indigent Soldiers and Sailors, Etc.

GEORGE E. WORTHEN
 MARY F. O'BRIEN, Asst. Supt.

Appointed by Mayor and City Council for the term of one year from March first. Ord. approved Sept. 27, 1898. Amended Ord. approved Feb. 8, 1910.

Fire Department

The Chief Engineer is elected by concurrent vote in the month of March or April for the term of three years. Sect. 2, Chap. 95, Acts of 1897.

Assistant Engineers appointed by the Mayor and Aldermen in March or April, the First Assistant for three years, the others for one year, commencing the first day of May. Ord. approved Nov. 27, 1896.

Chief Engineer

EDWARD S. HOSMER, 202 Westford StreetTerm expires 1912
 Office, Engine House, Middle Street

Assistant Engineers

JAMES F. NORTON, First Assistant, 22 Ames Street..Term expires 1913
 CHARLES E. ALWAYTerm expires 1911
 EDWARD MELOY, 30 Fort Hill AvenueTerm expires 1911
 CHARLES STACKPOLE, 105 Liberty Street.....Term expires 1911
 JAMES F. NORTON.....Clerk of the Board

The clerk is chosen by the Engineers.

Operator of Fire Alarm Telegraph

HENRY C. FERNALD.....Central Station

Board of Police

Office, Police Station

JOHN J. MULLANEYChairman
 THOMAS P. BOULGER.....Term expires 1912
 CHARLES H. HANSON.....Term expires 1914
 JOHN J. MULLANEY.....Term expires 1916

Appointed by the Mayor under the provisions of Chap. 428 of the Acts of 1894 and Chap. 187, Acts of 1895.

JOHN J. FLAHERTY, JR.....Clerk

Regular meetings at the Police Station every Tuesday evening at 8 o'clock.

REDMOND WELCH, Superintendent.
 HUGH DOWNEY, Deputy Superintendent.
 THOMAS R. ATKINSON, Captain.
 JAMES BROSNAN, Lieutenant.
 JOHN FREEMAN, Lieutenant.
 MARTIN CONNORS, Lieutenant.
 JOHN B. CROWLEY, Lieutenant.
 CHARLES LAFLAMME, Inspector, Criminal.
 JOHN A. WALSH, Inspector, Criminal.
 MARTIN MAHER, Inspector, Criminal.
 MICHAEL E. McDONALD, Inspector of Claims
 ALEXANDER DUNCAN, Sergeant.
 HUGH MAGUIRE, Sergeant.
 THOMAS McCLOUGHREY, Sergeant.
 WILLIAM GIROUX, Sergeant.

Keeper of Lockup

REDMOND WELCH

Constables

BELLE-ISLE, VICTOR H. J.
 BOISVERT, ADELARD
 BOYLE, WM. F.
 BRADLEY, CHARLES F.
 CRONIN, CORNELIUS F.
 CROWLEY, JOHN A.
 CROWLEY, WM. L.
 DEMARAS, HARRY
 EMERY, DANIEL
 GATELY, BERNARD F.
 GATELY, WILLIAM F.
 HARTWELL, CHARLES C.
 LAFLAMME, SIDNEY I.
 LAPIERRE, JOSEPH S.
 LAPORTE, ALFRED A.
 LAPORTE, ELIE C.

MANSUR, EZRA E.
 McMANUS, FRANK
 McMANUS, JOHN
 O'HARE, FRANCIS J.
 OUELLETTE, CLOVIS
 PIGEON, JOSEPH L.
 PINDER, JOHN J.
 PODGORSKI, KAZIMIR
 REDMOND, JAMES J.
 ROUSSELL, JOSEPH
 SAVITHES, PETER S.
 SLATTERY, EDWARD F.
 SMITH, WALTER S.
 SOMERS, CHARLES G.
 TURCOTTE, ISIDORE
 VIGEANT, FELIX H.

VIGEANT, WILFRED C.

Police Court

SAMUEL P. HADLEY.....Standing Justice
 JOHN J. PICKMANSpecial Justice
 FREDERICK A. FISHERSpecial Justice
 JAMES F. SAVAGE.....Clerk
 EDWARD W. TRULLAssistant Clerk
 EDWARD F. SLATTERYProbation Officer

Board of Health

DENNIS J. MURPHY, Chairman

Term expires first Monday in February, 1912

JOHN A. OSGOOD

Term expires first Monday in February, 1913

PIERRE BRUNELLE, JR., M. D.

Term expires first Monday in February, 1914

One member appointed annually by the Mayor and Board of Aldermen in January for term of three years from first Monday in February. Chap. 332, Sect. 1, Acts of 1895.

Board of Registrars of Voters

GEORGE C. EVANS.....Term expires April 1, 1912

HUGH C. McOSKERTerm expires April 1, 1913

J. OMER ALLARD, Chairman.....Term expires April 1, 1914

STEPHEN FLYNN, City Clerk, Ex-Officio

Chap. 560, Sects. 24 and 31. Acts of 1907

Chap. 440, Sect. 6. Acts of 1909

One member appointed annually in February or March for three years from the first day of April next ensuing and until his successor is appointed and qualified.

Fence Viewers

WILLIAM A. ARNOLD

JOHN VINCENT

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord. Chap. 41, Sect. 1.

Field Drivers

FRANK FOX

WILLIAM G. BUMPS

JAMES BROSNAN

MARTIN CONNORS

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord. Chap. 41, Sect. 1.

Pound Keeper

ORVILLE W. PEABODY

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord. Chap. 41, Sect. 1.

Smoke Inspector

JOHN F. HALLOWOOD

Appointed by the Mayor. Revised Laws, Chap. 103, Sect. 125.

Sealer of Weights and Measures

JOHN W. STOTT

JOHN NESTOR, Deputy Sealer

Appointed by the Mayor and Aldermen in March for one year from April first. Revised Laws, Chap. 62, Sect. 18, Ord. Chap. 41, Sect. 2. Ord. 1908. Civil Service applies, Chap. 382, Acts of 1909.

Deputy appointed by Mayor and Aldermen in March for one year from April first. Ord. 1909. Civil Service applies, Chap. 382, Acts of 1909.

Inspector of Milk

MELVIN F. MASTER Office, City Hall
Appointed by the Board of Health. Chap. 405, Acts of 1909.

Inspector of Animals

WALTER A. SHERMAN Office, 340 Central Street

Appointed by the Mayor and Board of Aldermen annually in March, subject to approval of Chief of Cattle Bureau. Revised Laws, Chap. 90, Sect. 12, Acts of 1902, Chap. 116. Chap. 378, Acts of 1908. Chap. 143, Acts of 1911.

Inspector of Provisions

DR. CLEMENT A. HAMBLETT

Appointed by the Board of Health.

Inspector of Petroleum Oil

EDWARD S. HOSMER

Appointed by the Mayor and Aldermen. Revised Laws, Chap. 102, Sect. 109.

Fish Warden

JAMES KEEFE

Appointed by the Mayor and Aldermen. Revised Laws, Chap. 91, Sect. 54.

Forest Warden

EDWARD S. HOSMER

Appointed by the Mayor and Aldermen in March or April, subject to the approval of the State Forester. Chap. 475, Acts of 1907.

**Superintendent of City Scales—Measurer of Wood and Bark
—Inspector of Baled or Bundled Hay—At City Scales**

GEORGE F. NOONAN

Office at City Scales, Rear of Police Station

Appointed by the Board of Aldermen in January or February. Ord. Chap. 46, Sect. 1, Chap. 21, Sect. 1.

**Measurers of Wood and Bark Brought by Water or Railroad
Cars into the City**

JOHN F. BATEMAN

CLIFTON F. LAWRENCE

ABRAM FENTON

WALTER C. BRUCE

THOMAS J. MURPHY

Appointed by the Board of Aldermen in January or February. Ord. Chap. 46, Sect. 1.

Measurers of Wood and Bark

BATEMAN, JOHN F.	LINSCOTT, HIRAM E.
BRUCE, WALTER C.	MCLEAN, JOHN R.
COBURN, JOSEPH B. V.	MURPHY, THOMAS J.
DOWNS, GEORGE W.	O'CONNOR, EDWARD F.
FENTON, ABRAM	OSBORN, VIRANUS E.
FULLER, GEORGE B.	PROUX, J. A.
HALL, OSCAR A.	RYAN, A. J.
HUMPHREY, J. F.	STEVENS, WM. F.

Appointed by the Board of Aldermen in January or February. Ord. Chap. 45, Sect. 1.

Measurers of Grain

BRUCE, WALTER C.	FENTON, ABRAM
CROWLEY, JAMES	MURPHY, THOMAS J.
	RYAN, ARNOLD J.

Fees—2 1-2 mills a bushel for measuring. Appointed by the Board of Aldermen in January or February. Ord. Chap. 41, Sect. 2.

Surveyors of Lumber

BATEMAN, JOHN F.	LAWRENCE, CLIFTON F.
CARROLL, WILLIAM J.	LEAVITT, GEORGE E.
CONANT, FREDERICK	LIBBY, ALBERT F.
DEMANGE, THOMAS	LINSCOTT, HIRAM E.
DOWNS, GEORGE W.	MCAULEY, KENNETH
DREW, JOHN B.	MCLEAN, JOHN R.
DUFFELL, W.	MCLEOD, MURDOCK K.
DUNCKLEE, FRED W.	MC PHEE, HARRY M.
ERWIN, JAMES	MOORE, THOMAS H.
FLEMING, GEO. A.	O'NEIL, DAVID
FULLER, GEORGE B.	OSBORN, VIRANUS E.
GILMAN, ALBERT I.	PHINNEY, ALBERT W.
GRANT, FRED L.	PROUX, J. A.
HALL, OSCAR A.	SCRIBNER, STEPHEN H.
HARDING, ARCHIE	SHEA, THOMAS H.
HILDRETH, C. L.	STEVENS, WM. F.
HOLSTEIN, ARTHUR H.	TAYLOR, CHARLES E.
HUMPHREY, J. F.	WELCOME, ASHLEY A.
JOHNSTON, E.	WHITNEY, GEORGE W.

Chosen by concurrent vote by nomination commencing in the Board of Aldermen in January or February. Ord. Chap. 41, Sect. 1.

Surveyors of Plastering, Brick or Stone Work and Painting

BATEMAN, JOHN F.

SMITH, MELVIN B.

BROOKS, HENRY O.

Appointed by the Board of Aldermen in January or February. Ord.
Chap. 41, Sect. 2.

Weighers of Hay and Other Articles

BATEMAN, JOHN F.

KELLEY, FRANK

BEALS, LAFOREST

KELLY, WILLIAM

BROWN, F. L.

LEAVITT, GEORGE E.

BRUCE, WALTER C.

LINSCOTT, HIRAM E.

BRYANT, ALTON D.

McALEER, EDWARD

BURNS, ETTA G.

McDOWELL, JAMES

BURNS, GEORGE E.

McLAUGHLIN, GEORGE W.

CAMPBELL, ALEXANDER M.

MORSE, R. A.

COBURN, JOSEPH B. V.

MULLIN, JOSEPH

CONROY, FRED J.

MURPHY, THOMAS J.

CORREIA, CANDIO

O'BRIEN, EVERETT

CURRAN, MICHAEL

PROUX, J. A.

ELLIOTT, HERBERT E.

RAMOS, JOE S.

FEENEY, SARAH V.

RICHARD, JOSEPH

FENTON, ABRAM

ROCHE, JOHN P.

FLETCHER, FRANCIS T.

SOUZA, LUIZ.

FLYNN, EUGENE F.

STEVENS, WM. F.

FULTON, ROBERT S.

VIEIRA, JOHN R.

HOSMER, SAMUEL

WELCOME, ASHLEY A.

HUMPHREY, J. F.

WILSON, E. A.

HUNT, WALTER B.

WOLFF, ABRAHAM

WOODFORD, CHARLES

Weighers of Coal

BARLOFSKY, ROSE	HOSMER, SAMUEL
BEALS, LAFOREST	HUNT, WALTER B.
BENNISON, EDNA B.	KELLEY, FRANK
BRUCE, WALTER C.	KELLY, WILLIAM
BRYANT, ALTON D.	KIDDER, PAULINE H.
BURNS, ETTA G.	Lajoie, EUGENE
BURNS, GEORGE E.	LEAVITT, GEORGE E.
CAMPBELL, ALEXANDER M.	LINDQUIST, FRANK E.
CAMPBELL, RICHARD C.	McALEER, EDWARD
CONROY, FRED J.	McDOWELL, JAMES
CORREIA, CANDIO	McKNIGHT, MARION E.
CURRAN, MICHAEL	McKNIGHT, MILDRED M.
DREWETT, EDWARD	MULLIN, JOSEPH
ECKLUND, MABEL G.	MURPHY, THOMAS J.
ELLIOTT, HERBERT E.	O'BRIEN, EVERETT
FEENEY, SARAH V.	PRESTON, J. H.
FENTON, ABRAM	RAMOS, JOE S.
FLETCHER, FRANCIS T.	RICHARD, JOSEPH
FLYNN, EUGENE F.	ROBBINS, CHARLES D.
FULTON, ROBERT S.	RUSHWORTH, CHARLES B.
GALLAGHER, FELIX	SOUZA, LUIZ
GORDON, JOHN	SPAULDING, ALICE A.
GOTT, GLENELG, JR.	STANLEY, HARRY L.
GRONDIN, ABRAHAM	VIEIRA, JOHN R.
HARDEN, NED	WIGGIN, SYDNEY W.
HEFLER, DAVID A.	WILSON, E. A.
HORNE, HERBERT W.	WOODFORD, CHARLES

SCHOOL COMMITTEE

1911

FRANKLIN E. JOHNSON.....President
ARTHUR K. WHITCOMB.....Secretary

Members

Ward 1—EDWARD T. GOWARD.....Term expires 1911
274 Appleton Street
Ward 2—THOMAS MAHONEY, JR.....Term expires 1911
139 Colburn Street
Ward 3—EDMUND T. SIMPSON.....Term expires 1912
393 Wilder Street
Ward 4—JOHN H. PYNE.....Term expires 1911
823 Central Street
Ward 5—JOHN C. FARRINGTON.....Term expires 1912
182 Perry Street
Ward 6—CHARLES T. MCKENZIE.....Term expires 1912
101 Coburn Street
Ward 7—JOHN H. LAMBERT, M. D.....Term expires 1911
70 Wannalancit Street
Ward 8—FRANKLIN E. JOHNSON.....Term expires 1912
417 Middlesex Street
Ward 9—CRAVEN MIDGLEY.....Term expires 1911
169 Meadowcroft Street

Standing Committees

1. ON TEACHERS—Messrs. Midgley, Simpson, Pyne.
2. ON FINANCE—Messrs. Midgley, Lambert, McKenzie.
3. ON BOOKS AND SUPPLIES—Messrs. Simpson, Johnson, Mahoney, Farrington, Pyne.
4. ON EVENING SCHOOLS—Messrs. Goward, Johnson, Lambert, Mahoney, Farrington.

5. ON HIGH SCHOOL—Messrs. Johnson, Goward, Simpson, Pyne, Farrington.
6. ON SCHOOLHOUSES AND HYGIENE—Messrs. Lambert, Midgley, McKenzie.
7. ON RULES—Messrs. Goward, Mahoney, McKenzie.

Assignment of Schools

- MR. GOWARD, Ward 1—High, Varnum, Edson, Eliot, Kirk Street, Tenth Street, Varnum Kindergarten.
- MR. MAHONEY, Ward 2—Green, Worthen Street, Morrill.
- MR. SIMPSON, Ward 3—High, Lincoln, Franklin, Howard Street, Grand Street, Laura Lee, Dover Street, Powell Street, Lincoln, Dover, Laura Lee and Franklin Kindergartens.
- MR. PYNE, Ward 4—High, Butler, London Street, Weed Street, Agawam Street, Carter Street, Lyon Street, Agawam Street and Chapel Street Kindergartens.
- MR. FARRINGTON, Ward 5—High, Colburn, Charles Street, Central Street, Ames Street, Cottage Street, Charles Street Kindergarten.
- MR. MCKENZIE, Ward 6—Greenhalge, West Sixth Street, Billings Street, Lakeview Avenue, Cabot Street, Cheever Street.
- DR. LAMBERT, Ward 7—Bartlett, Pawtucket, Cross Street, New Moody Street, Lexington Avenue, Pawtucket and Bartlett Kindergartens.
- MR. JOHNSON, Ward 8—High, Highland, Washington, Pine Street, Middlesex Village, Pine Street Kindergarten.
- MR. MIDGLEY, Ward 9—Moody, Riverside, Pond Street, High Street, Sycamore Street, Moody Kindergarten.

Assignment of Evening Schools

- MR. GOWARD—High, Drawing, Edson.
- DR. LAMBERT—Bartlett, Green, Cheever, Middlesex Village.
- MR. FARRINGTON—Greenhalge, Old Moody, Colburn.
- MR. JOHNSON—Mann, Worthen.
- MR. MAHONEY—Butler, Franklin, Riverside.

Regular Meetings of the School Committee

January.....	31	July.....	25
February	28	August	29
March	28	September	26
April.....	25	October.....	31
May.....	31	November....	28
June	27	December.....	26

Superintendent of Public Schools

ARTHUR K. WHITCOMBOffice, City Hall

Office Hours—One hour after the forenoon session of the schools, and from 10 to 12 o'clock on Saturday forenoon.

Supervisor of Janitors

WM. F. THORNTONHome Telephone 1046-5

Supply Agent

HENRY L. WILLIAMS.....Telephone 2727

Truant Commissioners

WM. F. THORNTON
CAMILLE ROUSSIN

HENRY L. WILLIAMS
JOHN J. WALKER

Office—Third Floor of City Hall

Office Hours—12 to 1 o'clock

CHARTER AMENDMENTS, ACTS OF 1896

[CHAP. 415]

AN ACT TO AMEND THE CHARTER OF THE CITY OF LOWELL.

Be it enacted, etc., as follows :

Sect. 1. All executive powers which are now by law vested in the City Council of the City of Lowell, or either branch thereof, shall hereafter be vested in and exercised by the Mayor of said city except as hereinafter otherwise provided.

Sect. 2. The Mayor may suspend or remove any executive or administrative officer except as hereinafter provided, for such cause as he shall deem sufficient, and shall set forth in the order of suspension or removal his reasons therefor, provided that no removal shall be made upon partisan grounds. The order of suspension or removal shall not take effect until it is approved by the City Council voting by yeas and nays. The City Council may, by a two-thirds vote of each branch, voting by yeas and nays, remove any of said officers without the consent of the Mayor ; provided, however, that nothing contained in this section shall apply to any of the following departments, namely : the School Committee, the Police Commission, the Water Board, the Board of Charities, or the Trustees of the Public Library.

Sect. 3. There shall be a department of supplies, and all material and supplies for the city shall be purchased by the chief or head of such department, subject to the approval of the Mayor. So far as is practicable, purchases shall be after public advertisement and under contract approved by the Mayor. All bills for material and supplies shall show the date of purchase, date of delivery, the unit of price, the quality and quantity of articles purchased and received, the number and date of the order of purchase, and if the purchase is under contract, the number and date of the contract, and shall be entered in full in an invoice book, which shall always be open to public inspection. The chief of this department shall be elected by the qualified voters of the city voting at the annual municipal election, and shall hold his office for the next municipal year thereafter, subject to the provisions of section two of this act.

Sect. 4. The Mayor shall cause to be kept a record of all his official acts, and to aid him in his official duties may appoint one or more clerks.

Sect. 5. The heads of the several departments and offices shall have the power to appoint and employ and discharge all subordinate officers and employees in their respective departments ; and they shall keep a record, subject to inspection, of all so appointed and employed and of all discharged, and in all cases of discharge the grounds therefor ; provided, however, that no removal shall be made on partisan grounds.

Sect. 6. The heads of the several departments and offices shall have the general charge and management of all matters pertaining to their respective departments, and shall make and execute all contracts necessary therefor, except for the purchase of material and supplies ; but every contract made as aforesaid in which the amount involved exceeds three hundred dollars shall be approved by the Mayor before going into effect ; provided that nothing in this section shall be construed to prevent the City Council, by ordinance, from transferring any of the duties imposed upon an appointed head of a department by this act or by ordinance, excepting the purchase of material and supplies, to another head of a department or board of commission.

Sect. 7. Neither the City Council nor either branch thereof, nor any committee or member thereof, shall directly or indirectly take part in the employment of labor, the purchase of material, the construction, alteration or repair of any public work or other property, or in the care, custody or management of the same, or in general in the expenditure of public money, or in the conduct of the executive or administrative business of the city, except as may be necessary for defraying the contingent and incidental expenses of the City Council, or of either branch thereof ; nor shall they or either of them take part in the making of contracts.

Sect. 8. No sum appropriated for a specific purpose shall be expended for any other purpose ; and no expenditure shall be made and no liability shall be incurred by or on behalf of the city until the City Council has duly voted an appropriation sufficient to meet such expenditure or liability, together with all prior unpaid liabilities which are payable therefrom, except that after the expiration of the financial year and before the making of the regular annual appropriations, liabilities payable out of the regular appropriations may be incurred to an amount not exceeding one-sixth of the total of the appropriation made for similar purposes in the preceding year ; provided, however, that nothing herein contained shall be construed to restrict or limit the School Committee in any expenditure which it is now, or may be hereafter authorized to make under any general law of the Commonwealth, or to restrict or limit payments on account of the per-

manent or temporary debt, or such as are required by law to be made to the Commonwealth.

Sect. 9. All revenues and all monies accruing to the City of Lowell from any source whatever, except trust funds and the revenues of the Water Department, shall, when collected or paid into the treasury, be carried to one general account, to be known as the General Treasury Fund ; and all appropriations by or on behalf of said city, except from trust funds and on account of the Water Department, shall be from such fund and as provided in section ten of this act. .

Sect. 10. All bills or other claims, before they are finally certified by the Auditor or paid, shall pass the inspection of a committee of the City Council on accounts. Said committee shall consist of one member of the Board of Aldermen and two members of the Common Council, to be elected annually by ballot by the body they respectively represent. Said committee may report any such bill or claim to the City Council, with their reasons therefor, and no bill or claim so reported shall be passed by the Auditor, or be paid without the consent of the Council. Said committee may require the opinion of the City Solicitor as to the legality of a bill or other claim.

Sect. 11. A yea and nay vote of the members of the City Council shall be required to pass any order or vote involving the expenditure or appropriation of the public monies, or involving any debt or liability, and said vote shall be entered upon the records of each branch of the City Council.

Sect. 12. Less than a quorum of either branch of the City Council, or of the School Committee, or of the Board of Overseers of the Poor, may adjourn to a fixed day earlier than the next regular meeting, and shall have power to compel the attendance of absent members in such manner as the City Council may by ordinance provide.

Sect. 13. All acts or parts of acts and all ordinances of the City of Lowell inconsistent herewith are hereby repealed and annulled ; provided, that no act or ordinance heretofore repealed shall thereby be revived ; and provided, also, that nothing in this act shall be taken to prohibit the City Council from abolishing any department, board, office or commission created by ordinance.

Sect. 14. The question of the acceptance of this act shall be submitted to the qualified voters of the City of Lowell at the annual State election in the present year, and the affirmative votes of a majority of the voters present and voting thereon shall be required for such acceptance. If so accepted, so much thereof as provides for the election of a Chief of the Department of Supplies shall take effect at the next annual municipal election, and the act shall take full effect on the first Monday in January in the year eighteen hundred and ninety-seven. [Approved May 16, 1896.] (Accepted.)

ACTS OF 1897

[CHAP. 95.]

**AN ACT RELATIVE TO THE DUTIES AND POWERS OF CERTAIN OFFICERS
OF THE CITY OF LOWELL.**

Be it enacted, etc., as follows :

Section 1. The City Council of the City of Lowell, and each branch thereof, shall have and exercise all the power and authority relative to the election or appointment of city officers, or the confirmation of appointments to office, which were vested in them prior to the enactment of section one of chapter four hundred and fifteen of the acts of the year eighteen hundred and ninety-six.

Sect. 2. The Chief of the Fire Department of said city shall be elected by concurrent vote of both branches of the City Council.

Sect. 3. The City Council shall by ordinance determine what officers shall be the heads of the various departments of the City Government. The head of the department of supplies may sell or dispose of the personal property of the city, upon the recommendation of the Mayor and of the head of the department to which such property belongs, except the products of the City Farm, which the superintendent of said farm shall have the right to dispose of.

Sect. 4. All ordinances of said city inconsistent herewith are hereby annulled, and all acts or parts of acts inconsistent herewith are hereby repealed.

Sect. 5. This act shall take effect upon its passage. [Approved February 20, 1897.]

ACTS OF 1898

[CHAP. 173.]

**AN ACT RELATIVE TO APPOINTMENTS IN THE FIRE DEPARTMENT OF
THE CITY OF LOWELL.**

Be it enacted, etc., as follows :

Section 1. The Chief Engineer of the Fire Department of the City of Lowell may, on the recommendation of the Board of Engineers, appoint as members of the permanent force, or as call men, without civil service examination, any person who has served as call or substitute call man in said service for three or more successive years prior to the passage of this act.

Sect. 2. Said Chief Engineer shall have the power to discharge all subordinate officers and employees in the Fire Department of said city,

except the members of said board, and with the approval of said board, to appoint and employ all such officers and employees.

Sect. 3. All acts and parts of acts inconsistent herewith are hereby repealed.

Sect. 4. This act shall take effect upon its passage. [Approved March 15, 1898.]

SEC. 7, CHAP. 26, REVISED LAWS.

No election of a city officer by a municipal body or board shall be valid unless made by a viva voce vote, each member who is present answering to his name when it is called by the clerk or other proper officer, stating the name of the person for whom he votes, or that he declines to vote. The clerk or other proper officer shall record every such vote.

ACTS OF 1905

[CHAP. 337.]

AN ACT TO ABOLISH THE BOARD OF OVERSEERS OF THE POOR AND TO
CREATE A BOARD OF CHARITIES IN THE CITY OF LOWELL.

Be it enacted, etc., as follows :

Section 1. The board of overseers of the poor of the City of Lowell shall be abolished as hereinafter provided, and all its powers, rights, duties and liabilities shall be transferred to a board of charities in the said city. No existing contracts, liabilities or suits shall be affected by this act except as hereinafter provided, but the board of charities hereinafter created shall be in all respects the successor of said board of overseers of the poor.

Sect. 2. Between the fifth day and the fifteenth day of January, nineteen hundred and six, the Mayor shall appoint a board of charities consisting of five persons, residents of the city, who shall hold office for terms of one, two, three, four and five years, respectively, from the fifteenth day of January, nineteen hundred and six, or until their successors are appointed and qualified ; and thereafter the Mayor shall annually, before the fifteenth day of January, appoint one member of said board to serve for a term of five years from said fifteenth day of January. A vacancy shall be filled in the same manner for the unexpired term. The Mayor shall designate a member to be chairman. The Mayor may remove any member at any time.

Sect. 3. No overseers of the poor shall be elected at the City election of nineteen hundred and five, but the overseers of the poor who were elected for terms ending on the first Monday in January, nineteen hundred

and seven, shall constitute the board of overseers of the poor from the first Monday in January, nineteen hundred and six, until the fifteenth day of January, nineteen hundred and six, when their terms shall expire. The term of office of all officers and employees of the overseers of the poor shall expire on the fifteenth day of January, nineteen hundred and six, or upon the appointment of their successors thereafter.

Sect. 4. The board of charities shall appoint a superintendent of charities, who shall have general executive charge of the department of charities, and shall hold office during the pleasure of the said board. He shall receive such salary as the city council may determine.

Sect. 5. All other officers and employees of the department of charities shall be appointed by the superintendent of charities and hold their offices and positions at his pleasure.

Sect. 6. This act shall be submitted to the qualified voters of the City of Lowell at the annual state election in the present year and shall take effect upon its acceptance by a majority vote of those voting thereon. The question of acceptance shall be placed upon the official ballot directly after the list of candidates and in the following form:—Shall an act passed by the general court in the year nineteen hundred and five, entitled “An act to abolish the overseers of the poor and to create a board of charities in the City of Lowell,” be accepted?

Sect. 7. So much of any act or of any ordinance of the City of Lowell as is inconsistent herewith is hereby repealed or annulled.

Sect. 8. So much of this act as is contained in section six shall take effect upon its passage. [Approved April 26, 1905.] (Accepted.)

ORDINANCES OF THE CITY OF LOWELL

PASSED SINCE 1894.

AN ORDINANCE AUTHORIZING THE CITY TREASURER TO ISSUE REGISTERED CERTIFICATES, NOTES OR BONDS IN EXCHANGE FOR CERTIFICATES, NOTES OR BONDS PAYABLE TO BEARER.

Be it ordained, etc., as follows:

The City Treasurer may, in accordance with the provisions of *Section 5 of Chapter 77 of the Public Statutes, at the request of the owner or holder of any bond, promissory note or certificate of indebtedness of the City of Lowell, at any time while more than one year remains before the principal of such bond, note or certificate is payable, issue in exchange therefor a bond, note or certificate of same effect, payable to the owner or holder by name.

* Now Sect. 4, Chap. 73, Revised Laws.

The City Treasurer may also, under like conditions, issue registered certificates, in substitution for any mutilated, defaced or endorsed bonds, notes or certificates ; and where a bond, note or certificate of any issue has been lost or destroyed, the City Treasurer, under the direction of the joint standing committee on finance, may issue in place thereof a new bond, note or certificate of the same effect.

The City Auditor, as well as the City Treasurer, shall keep a register of the dates, numbers and amounts of all bonds, notes and certificates issued by the City Treasurer, showing to whom they were issued, when they are payable, and if issued in exchange, for what they were substituted. [Approved May 12, 1896.]

AN ORDINANCE AMENDING SECTION THIRTEEN OF CHAPTER ONE OF THE REVISED ORDINANCES SO AS TO PROVIDE THAT THE SALARIES AND COMPENSATION OF CITY OFFICERS WHEN ONCE ESTABLISHED SHALL CONTINUE UNTIL RE-ESTABLISHED OR CHANGED.

Be it ordained, etc., as follows :

Section 13 of Chapter 1 of the Revised Ordinances is hereby amended by striking out between the word "year" in the third line of said section and the word "provided" in the sixth line thereof, the following words : "for the year commencing on the first Monday of January next ensuing ; and no change of salary shall be made to take effect during the time for which said salary was established," and inserting in place thereof the following : "provided that when such salaries and compensation shall have been once established, they shall continue until re-established or changed in pursuance of the provisions of this section ; and " so that said section as amended shall read as follows :

Section 13. The salaries and compensation of city officers shall be established in the month of December and after the annual municipal election shall have been held, in each year ; provided, that when such salaries and compensation shall have been once established, they shall continue until re-established or changed in pursuance of the provisions of this section ; and provided that in case any new office shall be created the salary of said newly created office may be fixed at any time ; and the salaries or compensation fixed for the payment of said officers shall be in full for all services performed by them by virtue of their offices ; and all sums of money received by them from any and every source, in discharge of said services, during any quarter of the fiscal year, shall at the expiration of said quarter be by them paid over or accounted for to the City Treasurer. [Approved May 12, 1896.]

AN ORDINANCE REGULATING THE WEIGHING AND MEASURING OF CERTAIN ARTICLES PURCHASED BY THE CITY.

Be it ordained, etc., as follows :

All supplies of hay, grain, straw, coal and any other material purchased for the use of the city or any department thereof exceeding one hundred pounds in weight and usually weighed, shall be weighed on the city scales, and all wood purchased for said city shall be measured by the City Measurer of Wood, and no bills shall be paid by the City Treasurer or approved by any committee for such article so furnished the city, unless the certificate of said weigher or measurer shall accompany or be attached to said bill. [Approved May 12, 1896.]

AN ORDINANCE TO PREVENT THE PLACING OF ASHES, GLASS, CROCKERY, ETC., IN OR ON THE PUBLIC STREETS OR WAYS.

Be it ordained, etc., as follows :

Section 1. Any person who shall put or place, or cause to be put or placed, in or upon any street, lane or alley, or other public place in this city, any ashes, glass, crockery, scrap iron, nails, tacks or any other article which would be liable to injure the feet of children or animals, or the tires of bicycles or other vehicles which have wheels with rubber or pneumatic tires, shall be deemed guilty of a misdemeanor.

Sect. 2. Any person violating the provisions of the preceding section or who is guilty of the misdemeanor therein described, shall be liable to a fine of not less than two dollars or more than twenty dollars for each offence. [Approved October 9, 1896.]

AN ORDINANCE AMENDING SECTIONS ONE AND NINE OF CHAPTER TWENTY OF THE ORDINANCES OF THE CITY OF LOWELL.

Be it ordained, etc., as follows :

Section 1. That Section 1, of Chapter 20 of the ordinances of the City of Lowell be and the same is hereby amended by inserting after the word "engineer" in the second line of said section, the words "a first assistant engineer and three other," and by striking out the word "four" in the second line of said section, and by inserting after the word "removed" in the sixteenth line of said section, the words "the first assistant engineer shall be appointed by the Mayor and Aldermen in the month of March or April, or whenever a vacancy occurs, and he shall enter upon the discharge of the duties of his office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for a term of three years from said first day of May, and until his succes-

sor is appointed, or he is removed; and if appointed after the first day of May in any year, he shall enter upon the duties of said office forthwith and shall continue therein until the expiration of the full term as existing at the time of said appointment, or until removed ;” and by inserting between the words “said” and “assistant” in the seventeenth line of said section, the word “other ;” and by inserting after the word “engineer” in the twenty-eighth line of said section, and before the word “shall” in the twenty-ninth line of said section, the words “and first assistant engineer;” so that said section shall read as follows :

Section 1. The Fire Department shall consist of a Chief Engineer, a First Assistant Engineer, who shall perform such duties as may be required of him by the Chief Engineer, and three other assistant engineers and as many enginemen, hosemen, hook and laddermen and other persons, to be divided into companies, as the number of engines and other fire apparatus of the city shall from time to time require ; the Chief Engineer shall be appointed by the Mayor and Aldermen in the month of March or April, or whenever a vacancy occurs, and he shall enter upon the discharge of the duties of said office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for the term of three years from said first day of May or until he is removed ; and if appointed after the first day of May of any year, he shall enter upon the discharge of the duties of said office forthwith, and shall continue therein until the expiration of the full term as existing at the time of his said appointment, or until removed. The First Assistant Engineer shall be appointed by the Mayor and Aldermen in the month of March or April, and whenever a vacancy occurs, and he shall enter upon the discharge of the duties of his office on the first day of May of the year in which appointed, if appointed for a full term prior to May of any year, and he shall hold said office for a term of three years from said first day of May and until his successor is appointed or he is removed ; and if appointed after the first day of May in any year, he shall enter upon the duties of said office forthwith, and shall continue therein until the expiration of the full term as existing at the time of his said appointment, or until he is removed; and the appointment of said other assistant engineers shall be made by the Mayor and Aldermen in the month of March or April annually, and whenever a vacancy occurs, and they shall hold their respective offices for the term of one year from the first day of May succeeding their appointment, or until others are chosen; all other members of the Fire Department shall be nominated by the Board of Engineers, and their names sent to the Mayor and Aldermen, and when by them appointed they shall be members of the Fire Department ; provided, that vacancies may be filled at any time, and that the Mayor and Aldermen, may at any time remove any and all of said officers or members ; except that the Chief Engineer and First Assistant Engineer shall not be removed without a hearing and cause shown

thereat. No person shall be appointed a member of the Fire Department who does not sustain a good moral character and who is not a citizen of the City of Lowell.

Sect. 2. This ordinance shall take effect upon its passage. [Approved Nov. 27, 1896.]

AN ORDINANCE IN RELATION TO AN ORDINANCE ON OPENINGS AND EXCAVATIONS IN STREETS AND IMPOSING A PENALTY.

(See Ord. 1898.)

Be it ordained, etc., as follows :

Section 1. No person, firm or corporation shall dig up, make any excavation in, or in any manner change or interfere with the surface or grade of any street for the purpose of laying water, gas or sewer pipes or railway tracks, or for any other purpose, without first giving notice to the Superintendent of Streets, which notice shall state specifically the time when work will be commenced and the probable time within which it shall be completed.

Sect. 2. When any opening or excavation shall be made in any street in pursuance of Section 1, the Superintendent of Streets, by himself or by a servant or agent appointed by him for that purpose, shall see that the surface of such street is left in good order and condition for public travel thereon. The expense for labor and material used in closing and covering such excavation shall in all cases be borne by the party causing the same to be made.

Sect. 3. Said superintendent shall, when about to build a new sewer or repair an old one, notify all the abutters on that part of the line of said sewer when he proposes to do work, so that said abutters may enter said sewer. He shall notify all abutters, when about to construct a new street, at least four weeks before beginning work, and when about to make a new surface of any street, at least two weeks before beginning work, shall notify the Superintendent of Lamps and Water Board and all persons authorized to place any obstructions in such street, and shall require and see that all said departments or persons having any work to be done in the street so designated, shall do all such work before the surface of such street is again prepared for and opened to public travel, and after the completion of the work then done in such street, shall not permit any department or person who shall have been so notified, for the space of two years, to again disturb the surface of such street or way within the area of such previous disturbance, except in case of obvious necessity, to be verified in writing to, and approved by the Mayor, and except in cases of tracks or leaks in pipes, sewers or wires.

Sect. 4. Any person, firm or corporation who shall dig up, make any excavations, or in any way change or alter the grade or surface of any accepted street, without giving the notice mentioned in Section 1 of this ordinance, shall be punished by a fine not exceeding twenty dollars.

Sect. 5. All ordinances and parts of ordinances, resolutions or orders of the City Council inconsistent herewith, are hereby repealed. [Approved November 27, 1896.]

AN ORDINANCE AMENDING SECTION FIFTEEN, CHAPTER THIRTY-NINE
OF THE REVISED ORDINANCES OF THE YEAR EIGHTEEN HUNDRED
AND NINETY-FOUR.

Be it ordained, etc., as follows :

That Section 15, Chapter 39, of the Revised Ordinances of the year 1894, be, and is hereby amended by striking out of the seventh line the word " forty-third," and inserting in place thereof the word " forty-fifth." [Approved July 21, 1897.]

AN ORDINANCE REGULATING HAWKERS AND PEDDLERS.

[Amended Ord. 1908.]

Be it ordained, etc., as follows :

Section 1. No person shall hawk or peddle, sell or expose for sale within said city any of the articles enumerated in Section 1 of Chapter 68* of the Public Statutes, until he has been duly licensed by and has recorded his name and residence with the Board of Police of the City of Lowell, and has been assigned a number by said board, to be worn in such manner as such board may prescribe. Provided, however, that the foregoing provisions shall not apply to any other person than the one named in the license.

Sect. 2. No person hawking, peddling or selling, or exposing for sale any of the articles enumerated in Section 1 of Chapter 68* of the Public Statutes, shall cry his wares to the disturbance of the peace and comfort of the inhabitants of the city.

Sect. 3. No hawker or peddler shall carry or convey any of the articles enumerated in Chapter 68* of the Public Statutes in any manner that will tend to injure the public health, or disturb the public peace or comfort, nor otherwise than in vehicles and receptacles which have printed on them in letters and figures at least two inches in height the name of the person selling and the number given him by the Board of Police.

*Now Chap. 65, Sect. 15, 16, Revised Laws.

Sect. 4. Whoever violates any of the provisions of the preceding sections of this ordinance shall be liable to a penalty of not more than twenty dollars for each offence. [Approved July 29, 1897.]

AN ORDINANCE TO AMEND SECTION EIGHTEEN OF CHAPTER SIX OF THE CITY ORDINANCES RELATING TO THE HITCHING OF HORSES TO LAMP POSTS.

Be it ordained, etc., as follows:

Section 18 of Chapter 6 of the City Ordinances is hereby amended by striking out all after the word "any" in the third line thereof and inserting instead thereof the words "lamp posts maintained by the city;" so that said section as amended shall read as follows:

Section 18. No owner, driver or other person having the care or ordering of a vehicle shall hitch or fasten the horse or horses attached thereto to any lamp post maintained by the city. [Approved January 1, 1898.]

AN ORDINANCE AUTHORIZING THE CITY TREASURER TO PRESCRIBE THE SYSTEM OF BOOKKEEPING FOR CERTAIN DEPARTMENTS AND OFFICERS RECEIVING MONEY BELONGING TO THE CITY AND PROVIDING FOR MORE FREQUENT RETURNS OF SUCH MONEY TO THE CITY TREASURY.

Be it ordained, etc., as follows:

Section 1. All departments and officers of the City Government except the City Treasurer, whose official duty requires the receipt of money belonging to the city, shall keep such books and records relating to the same as shall be prescribed by the City Treasurer.

Sect. 2. The heads of each department and officers receiving money for the city shall remit to the Treasurer as often as once in each month any balance that may be in the possession of such department or officer belonging to the city, except in case when the time for such payment into the city treasury is prescribed by statute.

Sect. 3. The Joint Committee on Accounts shall annually in connection with the annual examination of the accounts of the City Treasurer, examine, investigate and audit the books and accounts of all departments and officers receiving money for the city, and said committee shall make report of such examination to the City Council.

Sect. 4. All heads of departments and officers whose official duty requires the rendering of bills to individuals, cities or towns for charges of any nature, shall hereafter deliver all such bills to the City Treasurer for collection through his office.

Sect. 5. Section 9 of Chapter 1 of the Revised Ordinances and all ordinances and parts of ordinances inconsistent herewith are hereby repealed. [Approved January 1, 1898.]

AN ORDINANCE PROVIDING FOR ESTIMATES FOR APPROPRIATIONS AND FOR OTHER PURPOSES.

Be it ordained, etc., as follows :

Section 1. At the beginning of each municipal year and not later than the third Tuesday in January the Mayor shall make and transmit to the City Council an estimate of the expenditures required for the year. Such estimate shall be framed and itemized so as to show separately :

Par. 2. The amounts required by each department, office, board, commission or other sub-division of the executive branch of the government, and so far as may be practicable for the sub-division of the work of each department.

Par. 3. The salary or compensation of each officer, deputy, assistant, clerk, or employee of the city not classed as a laborer. The amounts required for labor shall, when practicable, be stated separately from those for materials and supplies.

Par. 4. Such estimates shall be in such form as to show in parallel columns, opposite each item, the amount paid for the previous year, and the amount unexpended at the close of such year.

Sect. 2. The Mayor shall make or cause to be made, and shall transmit to the City Council with the estimate required by the preceding section :

Par. 2. An itemized estimate of the revenues of the year from all sources except taxation of real and personal property and polls.

Par. 3. A statement of the balance unpaid at the close of the previous year on account of temporary loans, and the amount due by financial years, as unpaid taxes on real and personal property and polls.

Par. 4. An itemized statement of the debt, with interest becoming due during the year, and the margin available for loans within the debt limit for the year.

Par. 5. An itemized statement of all orders, etc., of the City Council involving expenditures which have not been appropriated for. In all cases the finances of the water service shall be shown separately.

Sect. 3. All regular annual appropriations shall be for and only applicable to the liabilities incurred during the year in which they are made, any form of phraseology in the order, resolution or vote providing for the same, to the contrary notwithstanding.

Par. 2. It shall be the duty of the Auditor to close all regular annual appropriation accounts with the last secular day in December of the year for which the appropriations are made, and to credit the general treasury fund account or accounts with the water service, as the case may be, with

the balance to the credit of such appropriations ; and thereafter no payment shall be made under such appropriations. He shall promptly report to the City Council the amount of each balance thus credited, and amount available in the general treasury fund, and the account with the water service, for the expenditures of the current year not otherwise appropriated.

Par. 3. All claims, accounts, and bills against the City of Lowell under such appropriations remaining unpaid at such date, shall be numbered consecutively, and be entered by the Auditor in such order, in a permanent book of record, to be known as the register of claims, so as to show the name of the claimant, the amount claimed and allowed, the nature of the service and the action had thereon. The Auditor shall transmit to the City Council, on or before the first regular meeting night in February, of either branch of the City Council, a schedule of such claims with a condensed statement of the nature of each claim, and the action had thereon.

Sect. 4. The several estimates and statements called for by this ordinance shall on their receipt by either branch of the City Council be referred, without other action, to the Joint Committee on Appropriations.

Par. 2. The Committee on Appropriations shall consist of the Chairman and two additional members of the Board of Aldermen and the President and three additional members of the Common Council.

Par. 3. "Said committee shall meet monthly and examine all monthly financial reports. Suggestions pertaining to the improvement of any department, may be transmitted to the City Council whenever deemed advisable." [Amendment 1906.]

Section 6 of Chapter 1 of the ordinances of the City of Lowell is hereby repealed.

Par. 3. Said committee shall have access to all or any of the records and official papers of the city, shall have power to require from any officer or employee of the city such additional statement or statements relating to the expenditures and revenues of the city as it may deem essential, and to summon any officer or employee of the city to be present at any designated meeting of said committee ; and to remain in attendance until discharged by the committee ; and any officer or employee who shall fail or refuse to comply with such request, order or summons, may be reported to the City Council or either branch thereof, for such action as it may have the power to take and see fit to exercise.

Sect. 5. The Committee on Appropriations shall make a final report in print, not exceeding two hundred copies, to the City Council or either branch thereof, on or before the fifteenth day of February of each year, unless granted further time by the City Council.

Sect. 6. All ordinances or parts of ordinances conflicting with this ordinance are hereby repealed. [Approved January 1, 1898.]

AN ORDINANCE PROVIDING FOR THE APPOINTMENT OF AN INSPECTOR OF WIRES AND DEFINING THE DUTIES OF SUCH OFFICER, IN ACCORDANCE WITH CHAPTER FOUR HUNDRED AND FOUR, ACTS OF 1890*.

Be it ordained, etc., as follows :

Section 1. Within thirty days after the passage of this Ordinance, there shall be appointed by the Mayor, subject to confirmation by the Board of Aldermen, an Inspector of Wires for the City of Lowell, who shall enter upon the duties of his office immediately, and shall hold said office, unless sooner removed, until the first day of February, 1901 ; and prior to the first day of February, 1901, and prior to the first day of February of every third year thereafter, there shall be appointed in like manner an Inspector of Wires who shall hold his office during a term of three years and until his successor is appointed, unless sooner removed in the manner prescribed by law.

Sect. 2. Said Inspector of Wires shall perform the duties prescribed by Section 3, Chapter 404 of the Acts of 1890,* and such other duties as are or may be hereafter prescribed by the laws of the Commonwealth or the ordinances of the city. He shall annually in the month of January make a report to the City Council of the business of his office for the year ending the thirty-first day of December next preceding. [Approved July 15, 1898.]

AN ORDINANCE RELATING TO THE PERMANENT REPAIRS ON STREETS AND THE PLACING OF UNDERGROUND SERVICES THEREIN ; ALSO TO THE NECESSARY REPAIRS OF SAME.

Be it ordained, etc., as follows :

Section 1. That before any street is paved with granite, concrete or other paving, macadamized or otherwise put in permanent repair by the city, the owners of land abutting on such street shall be notified at least four weeks previous to the time when such permanent improvements are to be commenced, that all underground services, whether for sewer, water, gas, electrical or other connections, shall be constructed and placed in said street previous to the date set for the making of said permanent improvements.

Sect. 2. That all corporations or individuals having services laid in said street, or intending or desiring to construct the same, whether for gas, electric, telephone, telegraph or for any service of whatsoever nature, or who shall desire to renew or repair services already constructed, shall be notified by the posting of a notice at the City Hall of the intention of the city to so repair such street, and by a notice which shall be published for six consecutive days in one morning and one evening newspaper printed in

*Now Chap. 122, Revised Laws.

the City of Lowell, the last publication of said notice to be at least three weeks previous to the time stated for making said permanent improvements.

Sect. 3. That when any street has been so paved, macadamized, or otherwise put in permanent repair, it shall not be opened or torn up for the placing of any new underground construction of any nature whatsoever during five years next succeeding the date in said published and posted notices stating the intention of the city to place said street in permanent repair ; provided, however, that in case repairs to any service become necessary, the same may be made after a permit has been granted by the Board of Aldermen, and said repairs shall be made under the supervision of the Superintendent of Streets. In case of leakage of gas or water pipes, the same may be repaired at once by the Gas Company or Water Board, and the surface of the street placed in a condition satisfactory to the Superintendent of Streets.

Sect. 4. Wherever on said street there may be unimproved land, and where no sewer, gas, water or other necessary services have been constructed, the same shall be laid and constructed, to a point at least two feet beyond the outside line of the sidewalk on said street, one each of the services mentioned for gas, water and sewer connections, for each fifty feet of frontage of the said land on said street, or at such distances as may be agreed upon by the owner of said land and the Superintendent of Streets. In case of neglect of the owner or of a corporation or individual to construct the same, said service for sewer, water and gas connections may be constructed by the city, and shall be paid for by the parties to whom rightfully belongs the construction of the same.

Sect. 5. Any violation of the foregoing conditions in regard to the digging up of streets shall be punished by a fine of not less than twenty dollars (\$20.)

Sect. 6. All ordinances and parts of ordinances inconsistent herewith are hereby repealed. [Approved August 5, 1898.]

AN ORDINANCE PROVIDING FOR THE APPOINTMENT OF A SUPERINTENDENT AND ASSISTANT SUPERINTENDENT OF STATE AID.

(Amended Ord. 1910.)

Be it ordained, etc., as follows :

Section 1. Within thirty days after the passage of this ordinance there shall be appointed by the Mayor, subject to confirmation of the Board of Aldermen, a Superintendent of State Aid and an Assistant Superintendent of State Aid for the City of Lowell, who shall enter upon the duties of their offices immediately and shall hold said offices, unless sooner removed, until the first day of February, 1899; and prior to the first day of February, 1899,

and prior to the first day of February of every year thereafter, there shall be appointed in like manner a Superintendent of State Aid and an Assistant Superintendent of State Aid, who shall hold their offices during the term of one year and until their successors are appointed, unless sooner removed in the manner prescribed by law.

Sect. 2. Said Superintendent of State Aid shall disburse state aid and city aid under the direction of the Mayor and Board of Aldermen as prescribed by *Chapter 279 of the Acts of 1893, *Chapters 279 and 301 of the Acts of 1894, *Chapter 279 of the Acts of 1896, *Chapter 561 of the Acts of 1898, or any other laws of the Commonwealth, or that may be hereafter prescribed by the ordinances of the city. He shall annually, in the month of January, make a report to the City Council of the business of his office for the year ending on the thirty-first of December next preceding.

Sect. 3. Said Assistant Superintendent of State Aid shall perform such duties as may be prescribed by the Superintendent of State Aid. [Approved September 27, 1898.]

AN ORDINANCE AMENDING SECTION SIX OF CHAPTER NINE OF THE
REVISED ORDINANCES OF THE CITY OF LOWELL.

Be it ordained, etc., as follows :

That Chapter 9 of the Revised Ordinances of the City of Lowell be amended by striking out Section 6 and substituting therefor the following :

Sect. 6. The City Treasurer shall receive and have the care and custody of all sums of money paid the city by persons for the perpetual care of lots in any of the city cemeteries, and give the vouchers of the city therefor, and money so received shall constitute a special fund to be known as the "Cemetery Fund for the perpetual care of lots." The Treasurer shall not receive a sum of money less than one hundred dollars (\$100.00) for the perpetual care of lots in any of the city cemeteries or public burial grounds. The Treasurer shall notify the Superintendent of the cemetery of all such payments, together with the description of the lots and graves on account of which such payments are made, and annually at such time as the Trustees of Public Burial Grounds request, shall pay over to them four per centum as interest upon all sums so paid to and receipted by him. The Treasurer shall invest the moneys of this fund in securities in which by law the funds of savings banks may be invested, and pay the amount of interest realized thereon into the city treasury. [Approved October 11, 1898.]

*Now Chap. 79, Revised Laws.

AN ORDINANCE ESTABLISHING AN INSPECTION OF WIRES DEPARTMENT
AND GOVERNING THE SAME.

Be it ordained, etc., as follows :

Section 1. An Inspection of Wires Department is hereby established, of which the Inspector of Wires shall be the head.

Sect. 2. The Inspector of Wires shall have supervision of all electric and other wires erected upon, over or under any street, way or building, and of every wire within any building where such wire is designed to carry an electric current, and shall have authority over, and shall inspect such wires, their condition, attachments, insulation, supports and appliances ; he shall require all persons and corporations owning or operating wires to place and arrange all posts, arms, fixtures, insulating supports, attachments and appliances so as to secure safety to life and property, and shall see that the provisions of *Chapter 404 of the Acts of 1890 and all other laws, ordinances, and regulations relating to electric and other wires are strictly enforced, and shall give prompt notice to any person or corporation owning or operating any such wire, when in his judgment the same is unsafe, or is not placed, kept and maintained in accordance with the requirements of said chapter or the provisions of any other law, ordinance or regulation.

Sect. 3. Said inspector shall, at least once in each year, inspect all posts supporting electric or other wires upon or over any street or building, and all supports of such wires when attached to buildings, and ascertain if said posts and supports are kept in proper condition and not weakened by decay or other causes ; and in case any person or corporation owning, leasing or operating wires shall neglect or refuse to maintain said supports in proper condition for safety, the inspector shall cause said fixtures and supports to be put in proper condition at the expense of the person or corporation owning or operating the same, after first giving the person or corporation due notice in writing of his intended action.

Sect. 4. It shall be the duty of the inspector to cause to be removed all dead wires of whatever nature attached to buildings, if, in his judgment, they are in a dangerous condition or liable to become dangerous to life or property, and he shall notify in writing the person or corporation owning, leasing or operating such wires of his desire for the removal of any wire, and give them at least ten days in which to comply with the requirements, except in cases in which, in his judgment, there is immediate liability of injury to person or property from the wire and in all such cases the notice shall require their removal forthwith. In the event of the refusal of any person or corporation to take proper action, the inspector may cause the work to be done and the expense to be charged to the owners.

* Now Chap. 122, Revised Laws.

Sect. 5. No person or corporation shall allow any piece of wire to be left on the surface of any street or sidewalk, or to permit unused fixtures, coils or loose ends of wire to remain attached to any cross-arm or post more than twenty-four hours without special permission.

Sect. 6. Every person or corporation operating electric or other wires over or under any street, way or building in the city, upon request of the inspector shall furnish within fifteen days thereafter, accurate lists of the posts, or other supports of their wires, the location of conduits and man-holes, with information as to location, where and what service is rendered, whether telegraphic, telephonic, power or electric lighting, and in the latter case, whether arc or incandescent current is used.

Sect. 7. The said inspector, upon request, shall also be furnished by any person or corporation operating or owning electric wires with such information as to kind, size and tested strength of supporting or service wires, the maximum volts used, together with such other information as may be necessary to the faithful and effectual discharge of his duties.

Sect. 8. All wires, appliances and apparatus in the interior of public buildings or on private premises which are intended for the transmission of electricity, either for isolated lighting or power, or to be connected with an outside circuit, shall be made, placed and arranged, and at all times kept safe to the satisfaction of the inspector; and said inspector may at all proper and reasonable times have access to such wires and apparatus.

Sect. 9. In no case shall a current of electricity be connected to any system of wiring or apparatus intended to be used for power or lighting without permission first being obtained and a written permit granted by the Inspector of Wires; the jurisdiction of the inspector is intended to include all public and private electrical systems that are now and may hereafter be installed in the City of Lowell.

This ordinance is not intended to govern or call for the inspection of electric bell systems, private or public telephones inside of public or private buildings, or the interior apparatus or boxes of the fire alarm or police system of the city.

Sect. 10. No person or corporation shall change the position or make additions to any wiring system, or install any new work or electrical apparatus without first notifying the inspector, and be given full opportunity to inspect the same before such work is completed; and when any electric wires designed to carry an electric light or power current are to be concealed, the inspector must be notified before work is commenced, and he shall give his permission and approval for all such work and connections immediately, unless in his judgment such apparatus or wiring endangers life or property or is not in accordance with the laws and ordinances, or in conformity with the established insurance rules.

Sect. 11. The inspector shall require that the established rules and regulations of the National Board of Fire Underwriters shall be complied with, both for outside and interior construction.

Sect. 12. It shall be the duty of the Inspector of Wires to carry out any order of the Mayor and Board of Aldermen on any matters referred to him by them, coming under the laws or ordinances, and all questions of right and authority shall be determined by the Mayor and Board of Aldermen upon any appeal or refusal of any person or corporation to comply with the requirements of the inspector and the laws and ordinances.

Sect. 13. The Inspector of Wires shall keep a record of all inspections and permits in a book provided for the purpose and this book shall be open to inspection (at all reasonable times) by any interested parties.

The inspector shall make monthly reports of his doings to the Mayor and Board of Aldermen, and an annual report to the City Council.

Sect. 14. Whoever violates or fails to comply with any of the provisions of this ordinance after being duly notified in writing by the inspector, shall forfeit and pay for each offence not less than ten nor more than twenty dollars.

Sect. 15. The Inspector of Wires shall be on duty eight hours per day, from 9 A. M. till 5 P. M. each regular working day, and at such other times as cases of emergency may require, and shall receive such compensation as may be determined by the City Council. Said inspector shall devote his whole time to the service of the city, and shall engage in no other business or calling. [Approved July 26, 1899.]

AN ORDINANCE PROHIBITING HEAVY TEAMING AND TRUCKING UPON THE
SPEEDWAY PORTION OF THE PAWTUCKET BOULEVARD.

Be it ordained, etc., as follows :

Section 1. The driving or drawing of heavy wagons, carts, trucks or similar vehicles used for the purposes of transportation of stone, lumber, coal, ice, express packages, groceries, or other merchandise requiring for the transportation of the same a vehicle exceeding in weight a family carriage, buggy, carry-all or similar vehicle used principally for pleasure driving or recreation, is hereby prohibited upon that portion of Pawtucket Boulevard, commonly called the Speedway ; provided, however, that this prohibition shall not apply to any vehicle used for the purpose of transporting any article or material necessary for the improvement or repair of said Speedway or of any portion of said Boulevard, or of the structures connected with the water plant in said Boulevard.

Sect. 2. Any person who shall violate any provision of Section 1 of this ordinance shall be punished by a fine not exceeding twenty dollars for each offence. [Approved July 31, 1900.]

AN ORDINANCE ESTABLISHING THE OFFICE OF CLERK OF COMMITTEES.

Be it ordained, etc., as follows :

Section 1. There shall be a Clerk of Committees, to be chosen by concurrent vote of both branches of the City Council as soon as may be after the enactment of this ordinance, who shall enter upon the duties of his office immediately after his election, and hold the same for a period of three years from and after January 1, 1901, and until his successor is elected and qualified. Thereafter the City Council shall, in the month of January following the expiration of each three year term, choose a Clerk of Committees who shall hold office for three years. Such Clerk of Committees shall receive such compensation as the City Council shall determine.

Sect. 2. He shall make a proper record in books kept for the purpose, of all proceedings and transactions, and keep a calendar of all meetings of the committees of which he is clerk. He shall perform such other duties and services, in making estimates and computations, drawing orders and reports, and rendering assistance, as such committees shall require.

Sect. 3. On the request of the chairman of any committee, the said Clerk of Committees shall authorize the City Messenger to notify all committee members of the time and place of meeting.

Sect. 4. This ordinance shall take effect upon its passage. [Passed December 18, 1900.]

AN ORDINANCE RELATING TO ADVERTISING BILLS AND POSTERS.

(Amended, ordinance 1902.)

Be it ordained, etc., as follows :

Section 1. No person, firm or corporation shall distribute or cause to be distributed in or upon any street, way, common or place within the limits of the City of Lowell, or post or cause to be posted on any bill-board, fence, wall or structure, or shown in windows, any card, circular, bill, lithograph or advertisement whatsoever, containing any cut, photograph, painting or pictorial representation of any kind, for the purpose of advertising or calling attention to any show, circus, play or exhibition, whether given, or to be given, within or without the City of Lowell, without having first submitted the same to the Supt. of Police and obtaining his approval thereof, and of such distributing or posting. And no such card aforesaid, bill or advertisement shall be distributed or posted, as aforesaid, without having attached thereto or printed or pasted thereon, a statement that it has been approved by the Supt. of Police of Lowell, and the date of such approval.

Sect. 2. Whoever violates the provisions of this ordinance, shall, on conviction thereof, be punished by a fine not exceeding twenty dollars for each offence.

Sect. 3. This ordinance shall take effect upon its passage. [Approved December 27, 1901.]

AN ORDINANCE RELATING TO THE APPROVAL OF BILLS AND CLAIMS
PAYABLE FROM THE APPROPRIATION FOR INCIDENTALS.

Be it ordained, etc., as follows :

Section 1. Every bill and claim against the city which, if correct, would be chargeable to the Appropriation for Incidentals, shall, before being passed by the Committee on Accounts, be submitted to the Mayor, who shall examine the same and endorse thereon a statement that he does or does not object to the payment of the same or any of the items thereof. He shall then return such bill or claim to the City Auditor or the Committee on Accounts, and if he objects to the payment of said bill or claim, in whole or in part, he shall submit to said auditor or to said committee with said bill when so returned, a specific statement in writing signed by him of his objections thereto and his reasons for such objection. [Approved December 27, 1901.]

AN ORDINANCE AMENDING AN ORDINANCE ENTITLED "RELATING TO
ADVERTISING BILLS AND POSTERS."

Be it ordained, etc., as follows :

That the ordinance entitled "Relating to advertising bills and posters," passed by the City Council and approved by the Mayor December 27, 1901, be and is hereby amended by striking out all after the enacting clause and inserting in place thereof, the following :

Section 1. No person, firm or corporation shall distribute, or caused to be distributed in or upon any street, way, common or place within the limits of the City of Lowell, or post or cause to be posted on any billboard, fence, wall or structure, or shown in windows, any card, photograph, painting and pictorial representation of any kind for the purpose of advertising or calling attention to any burlesque show, whether given or to be given within or without the limits of the City of Lowell ; nor shall any person, firm or corporation distribute or cause to be distributed within the limits of the City of Lowell any pamphlet or circular containing advertise-

ments therein of aphrodisiac cures, without having first submitted the same to the Superintendent of Police and obtaining his approval of such posting and distributing. And no such card, bill, pamphlet, circular or advertisement aforesaid shall be posted or distributed without having attached thereto, or printed or pasted thereon, a statement that it has been approved by the Superintendent of Police of the City of Lowell, and the date of such approval.

Sect. 2. No person, firm or corporation shall throw, deposit, drop or leave, nor cause to be thrown, deposited, dropped or left in any highway or upon the doorsteps or within the hallway of any dwelling house within the limits of the City of Lowell, any sample of medicinal or toxic substance, either in package or bulk, and shall leave such sample of medicinal or toxic substance in a dwelling house only with the consent and approval and in the possession of an adult occupant.

Sect. 3. Whoever violates the provisions of this ordinance, shall on conviction thereof, be punished by a fine not exceeding twenty dollars for each offence.

Sect. 4. This ordinance shall take effect upon its passage. [Approved 1902.]

AN ORDINANCE REGULATING THE OPERATION OF MOTOR CYCLES IN THE CITY OF LOWELL.

Be it ordained, etc., as follows :

Section 1. No motor cycle shall be ridden upon the streets, avenues, boulevard, parks or commons of the City of Lowell, unless the motor of such cycle shall be fully covered and provided with mufflers designed expressly to deaden the noise of a motor cycle.

Sect. 2. Any person who violates the provisions of the preceding section, shall be punished by a fine not exceeding ten dollars for each offence.

Sect. 3. This ordinance shall take effect upon its passage. [Approved 1902.]

AN ORDINANCE AMENDING SECTIONS 12 AND 16 OF CHAPTER 39 OF THE REVISED ORDINANCES.

Be it ordained, etc., as follows :

That Section 12 of Chapter 39 of the Revised Ordinances be amended by striking out the words "board of aldermen" in the fifth and sixth lines of said section, and inserting instead thereof the words "Superintendent of Streets;" and that Section 16 of said chapter be amended by striking out the words "Superintendent of Streets;" and by striking out the word "they" in the fourth line and inserting instead thereof the words "board of aldermen;" so that said sections shall read as follows :

Sect. 12. No person shall break or dig up the ground in any street, townway, highway or common and public passageway, in the city, nor erect any staging for building thereon, or pile or deposit thereon any earth, bricks, lumber, or other building material, without a written license from the Superintendent of Streets, and without faithfully complying with the conditions of such license.

Sect. 16. In all cases in which license may be given by the Superintendent of Streets to obstruct any highway, street, townway or passageway as described in the twelfth section of this chapter, the Board of Aldermen may impose such reasonable conditions and limitations with regard to the erection of barricades, the maintaining of lights and the taking of other precautions for the security of travelers and passengers as they may consider necessary.

This ordinance shall take effect upon its passage. [Approved October 9, 1903.]

AN ORDINANCE AUTHORIZING THE SUPERINTENDENT OF POLICE TO PARTITION OFF STREETS, WAYS OR SIDEWALKS FOR THE PROTECTION OF THE PUBLIC.

Be it ordained, etc., as follows :

Section 1. For the protection and safety of the public, the Superintendent of Police is authorized to partition off with rope, wire or other material, any portion or portions of any street, way or sidewalk within the limits of the City of Lowell on the occasion of any public observance, celebration or procession, or upon any other occasion when, in the opinion of the said Superintendent of Police, it becomes necessary.

Sect. 2. This ordinance shall take effect upon its passage. [Approved October 9, 1903.]

AN ORDINANCE TO PROVIDE FOR THE ELECTION OF A CITY PHYSICIAN
AND DEFINING HIS DUTIES.

Be it ordained, etc., as follows :

Section 1. There shall be a City Physician, to be chosen by concurrent vote of both branches of the City Council as soon as may be after the enactment of this ordinance, who shall enter upon the duties of his office upon December 1, 1905, and hold the same, unless sooner removed therefrom in the manner provided by law, for a period of three years from and after said December 1, 1905, and until his successor is elected and qualified. Thereafter the City Council shall, in the month of October or November immediately preceding the expiration of each three-year term, choose a City Physician who shall hold office for three years from the first day of December following and until his successor is chosen and qualified unless sooner removed therefrom in the manner provided by law. Whenever a vacancy occurs the City Council shall choose a City Physician who shall fill the remainder of the unexpired term, unless sooner removed in the manner provided by law.

Sect. 2. It shall be the duty of the City Physician to attend upon all patients under the care of the city authorities at the City Farm or Police Station ; to make a report annually in April to the City Council covering the services rendered by him during the previous year. In case of an alarm by an infectious or contagious disease to give to either branch of the City Council or any committee thereof all such professional advice and counsel as they may request of him, and generally to perform such other professional services as may be reasonably required of him by the Mayor or the City Council, or the Superintendent of the City Farm.

Sect. 3. The ordinance approved June 27, 1900, entitled "An Ordinance to provide for the election of a City Physician and defining his duties" is hereby repealed, said repeal to take effect December 1, 1905.

Sect. 4. This ordinance shall take effect upon its passage. [Approved December 9, 1905.]

AN ORDINANCE TO CREATE A COMMISSION TO ACQUIRE A SITE AND TO
RE-BUILD HUNTINGTON HALL.

Be it ordained, etc., as follows :

Section 1. There shall be chosen in the manner hereinafter provided, four citizens of Lowell who shall hold no other municipal office, who, together with the Mayor for the time being, ex-officio, shall constitute a commission to be known as the Huntington Hall Commission. The members of said commission shall not receive any salary or emolument for their services, and shall, unless sooner removed in the manner provided by law, hold

their respective offices until the completion of the building hereinafter mentioned ; and upon the declaration of the Mayor in writing filed with the city clerk that the work contemplated by the ordinance has been duly completed, the authority of said commission shall cease and determine.

Sect. 2. Within thirty (30) days after the enactment of this ordinance, the Board of Aldermen and the Common Council shall meet in joint convention and elect four persons as above specified to be members of said commission. If any member so elected shall decline to serve, or if by the death, resignation or removal from office of any member of said commission a vacancy shall exist, the City Council shall, in joint convention elect a new member to fill such vacancy.

Sect. 3. Said commission shall have the general charge and management of all matters pertaining to the erection of a new public hall to take the place of Huntington Hall recently destroyed by fire ; shall select and purchase or otherwise acquire a site therefor, and shall do, or cause to be done, all things necessary for the erection of a suitable and commodious public hall with such appurtenances and furnishings as they may deem proper. They shall make all contracts in relation thereto, except for the purchase of material and supplies, but no contract so made involving the expenditure of more than three hundred dollars (\$300) shall be valid and binding upon the city until approved by the Mayor in writing ; and no expenditure shall be made by said commission under the authority of this ordinance until the City Council has duly voted an appropriation therefor.

Sect. 4. The chairman of the Board of Aldermen and the president of the Common Council shall constitute a committee to submit to said joint convention a list of four names as nominees for commissioners ; such names shall be voted on separately, and in case of failure to elect any one or more of the persons so named, new names shall be submitted by said committee until four persons shall have been elected, who, together with the Mayor, shall constitute such commission. [Approved May 15, 1906.]

AN ORDINANCE REQUIRING THE ASSESSORS OF TAXES TO PUBLISH CERTAIN INFORMATION.

(Amended Ord. 1908.)

Be it ordained, etc., as follows :

Section 1. Beginning March 1, 1907, and every two years thereafter, the Assessors of Taxes of the City of Lowell, shall cause to be printed at the expense of their department for general distribution, ten thousand (10,000) copies of a list which shall contain the following information properly arranged : Names of all real and personal estate taxpayers in the City of Lowell ; location of real estate ; valuation of land per foot ; buildings and personal property, and total tax assessed. [Approved December 15, 1906.]

AN ORDINANCE AMENDING AN ORDINANCE ENTITLED, "TO PROVIDE FOR THE CREATION AND ORGANIZATION OF THE BUILDINGS DEPARTMENT AND TO REGULATE THE CONSTRUCTION, ALTERATION, MAINTENANCE, REPAIR AND REMOVAL OF BUILDINGS WITHIN THE CITY OF LOWELL."

Be it ordained, etc., as follows :

That the ordinance entitled, "To provide for the creation and organization of the Buildings Department and to regulate the construction, alteration, maintenance, repair and removal of buildings within the City of Lowell," be and the same is hereby amended as follows :

By adding at the end of Section 34 the following : "Buildings devoted to manufacturing purposes and equipped with automatic sprinklers shall be exempt from the provisions of this section."

By adding after the fourth paragraph of Section 51 the following : "Stairways in buildings devoted to manufacturing purposes and equipped with automatic sprinklers shall be constructed in accordance with the requirements of state authorities." [Approved December 15, 1906.]

AN ORDINANCE AMENDING AN ORDINANCE ENTITLED, "PROVIDING FOR ESTIMATES FOR APPROPRIATIONS AND FOR OTHER PURPOSES."

Be it ordained, etc., as follows :

That the ordinance entitled, "Providing for estimates for appropriations and for other purposes," be amended by adding after paragraph 2 of section 4 the following :

Paragraph 3. Said committee shall meet monthly and examine all monthly financial reports. Suggestions pertaining to the improvement of any department may be transmitted to the City Council whenever deemed advisable. [Approved December 15, 1906.]

AN ORDINANCE AMENDING AN ORDINANCE ENTITLED, "TO PROVIDE FOR THE CREATION AND ORGANIZATION OF THE BUILDINGS DEPARTMENT AND TO REGULATE THE CONSTRUCTION, ALTERATION, MAINTENANCE, REPAIR AND REMOVAL OF BUILDINGS WITHIN THE CITY OF LOWELL."

Be it ordained, etc., as follows :

That the ordinance entitled, "To provide for the creation and organization of the Buildings Department and to regulate the construction, alteration, maintenance, repair and removal of buildings within the City of Lowell," be and the same is hereby amended as follows :

By striking out in Section 74 all after the first paragraph and inserting in place thereof the following :

SYSTEM OF GAS PIPING. In all systems of gas piping hereafter constructed in any building in the City of Lowell, the size of pipes shall not be less, and the length of pipes shall not be greater, in respect to the number of openings to be used thereon, than those specified in the following table :

Size of Pipe	Greatest Length Allowed	Greatest Number of Openings
$\frac{3}{8}$ inch	20 feet	4
$\frac{1}{2}$ "	30 "	12
$\frac{3}{4}$ "	70 "	30
1 "	100 "	60
$1\frac{1}{4}$ "	150 "	85
$1\frac{1}{2}$ "	200 "	135
2 "	300 "	250
$2\frac{1}{2}$ "	400 "	375
3 "	550 "	600
4 "	750 "	1000

A gas stove shall be considered the same as six openings and $\frac{1}{2}$ inch pipe shall be used.

No $\frac{1}{4}$ inch pipe shall be used unless exposed and for not more than one or two burners.

PIPES SHALL NOT BE COVERED BEFORE INSPECTED. The pipe used shall be of the best quality and fittings must be malleable iron or brass. All pipes shall be suitably supported and stayed with pipe hooks, straps and screws. All pipe must be run at least level, and joists notched not more than twelve (12) inches from bearings. All pipes must be run on top of joists and only in case where it is impossible to run otherwise should pipes be run on strip furring. All split pipes must be removed. Pipes must be free from traps, and no drips will be allowed except where absolutely necessary. No cement shall be used in the pipes or fittings, and pipes shall not be painted or covered before inspection is made. When outlets are not in close proximity to studding or joists, a notched wooden cross piece must be fastened to secure the same. All drops or outlets must not be less than $\frac{3}{8}$ inch. All main risers shall be run in inside partition or exposed. Riser pipe or main outlet from meter must not be less than $\frac{3}{4}$ inch. In blocks or store buildings, each apartment or store must be provided with a separate riser. Each gas meter shall be located subject to the approval of the Inspector of Buildings. Service pipes shall be run inside of the building. Both connections with meter shall be made by the Gas Company. All pipes must be tested at five (5) pounds pressure in the presence of the Inspector and must be approved by him.

MUST BE APPROVED BY THE INSPECTOR. No extension or alteration of any existing system of gas piping in any building shall be made without the inspection and approval of the Inspector of Buildings, or in cases where more than forty (40) feet of exposed gas piping and more than three out-

lets are put in, or six feet of concealed piping with one opening. In case of small jobs, notice of such work must be sent to the Inspector of Buildings, giving an outline of the work to be done, location and owner's name.

In first, second and third class buildings and buildings of six or more tenements each supply pipe leading from street mains shall be provided with a stop cock, placed in the sidewalk at or near the curb, and so arranged as to allow of shutting off at that point by means of a suitable wrench. [Approved December 12, 1907.]

AN ORDINANCE TO PROVIDE FOR PENSIONING FIREMEN.

Be it ordained by the City Council of the City of Lowell, as follows :

Section 1. The Board of Engineers of the Fire Department, subject to the conditions hereinafter stated, may retire on pension any member of the fire department who, by reason of permanent disability incurred while in the performance of his duty as fireman, call-fireman or substitute call-fireman is no longer able to perform active service as a fireman.

Sect. 2. The city physician shall examine every person recommended by said Board of Engineers for a pension, and shall then, and annually thereafter, furnish to said Board of Engineers a written statement of the physical condition of the person recommended, so far as it shows his permanent inability to perform active service as a fireman, call-fireman or substitute call-fireman.

Sect. 3. A pension granted to a chief engineer shall not be less than one half the salary received by him at the time the disability was incurred.

A pension granted an assistant engineer shall be one half the salary received by the first assistant engineer at the time the disability was incurred.

A pension granted any other member of the fire department shall be one half the salary of a permanent man at the time the disability was incurred.

Sect. 4. This ordinance shall take effect upon its passage. [Approved December 14, 1907.]

AN ORDINANCE RELATING TO THE SEALER OF WEIGHTS AND MEASURES.

(Amended Ord. 1909.)

Be it ordained by the City Council of the City of Lowell, as follows :

Section 1. The Sealer of Weights and Measures shall be the head of the Department of Weights and Measures. He may employ necessary laborers and assistants.

Sect. 2. The Sealer of Weights and Measures shall be appointed by the Mayor and Aldermen annually in the month of March, and shall hold

his office for the term of one year from the first day of April in the year of his appointment, and until his successor is duly appointed and qualified. The Mayor and Aldermen may at any time remove such Sealer and appoint another in his place.

Sect. 3. For the year beginning the first day of April 1908, the Sealer of Weights and Measures shall receive as full compensation for his services, a salary of twelve hundred dollars (\$1200.00), any order, resolution or ordinance to the contrary notwithstanding. He shall collect the fees and charges which by law he is allowed to receive, and shall pay over to the City Treasurer each month all sums so received by him ; and he shall devote his entire time to the business of his department. His salary, after the year beginning April 1, 1908 shall have expired, shall be fixed in the manner provided in Section 13 of Chapter 1 of the Revised Ordinances and ordinances in amendment thereof and addition thereto.

Sect. 4. The Sealer of Weights and Measures shall annually, during the month of November, make a report of the weights, measures and balances tested, sealed or condemned by him, together with an inventory of the standards and working apparatus in the possession of the city, to the State Commissioner of Weights and Measures, and he shall transmit a copy of said report to the City Council, together with an account of all sums received by him and paid over to the City Treasurer.

Sect. 5. All ordinances and parts of ordinances inconsistent herewith are hereby repealed. [Approved March 5, 1908.]

AN ORDINANCE RELATING TO THE ASSESSMENT OF TAXES IN THE CITY OF LOWELL.

Be it ordained, etc., as follows :

Chapter 3 of the Revised Ordinances of 1894 is hereby amended by striking out all after Section 1 of said Chapter, and substituting in place thereof the following :

Sect. 2. The Board of Assessors shall annually, in the month of January, or as soon as practicable thereafter, organize, by choosing one of their number to act as Chairman ; said chairman shall not receive extra compensation, and all members of the Board shall devote their whole time to the service of the city.

Sect. 3. It shall be the duty of the Assessors of Taxes to complete their assessment and place the list of taxes in the hands of the Collector of Taxes on or before the first day of September, annually ; and they shall, on or before the first day of September, annually, indicate on said list the residence of the several tax payers for that year.

Sect. 4. When any tax shall be abated in whole or in part by the Assessors of Taxes, they shall make a record thereof in a book to be kept by them for that purpose, which record shall contain the names of all persons whose taxes may be so abated, and the reasons for such abatements; and they shall also annually, in the month of January, make out and transmit to the City Council a full report of the work of their Board, said report to show the total valuation of the City, amount of real estate, amount of personal estate, total corporation valuation in detail, total valuation in bank stock, street watering and moth assessments, number of polls, and such other items as may be of interest to the public. Said figures to be in a column parallel to a column containing the figures of the preceding year.

Sect. 5. The Assessors shall, annually, on the thirty-first day of December, report to the Auditor all abatements of taxes made by them during the year ending on said day, distinguishing the abatements made on the different year's taxes, and whether abated before or after collection.

Sect. 6. The Assessors shall have full power to employ temporary assistant assessors, the number not to exceed twelve (12), for the purpose of obtaining the lists of polls and incidental personal property, the total expenditure not to exceed nine hundred and fifty dollars (\$950.00) in any one year. Permanent clerks, not to exceed two, one to be known as Chief Clerk, may be employed the whole year at such compensation as the Board may determine. The Assessors shall have full power to hire as many temporary clerks as may be necessary to assist them in the performance of their duties, the compensation of said clerks not to exceed two dollars and fifty cents (\$2.50) per day.

Sect. 7. This ordinance shall take effect upon its passage. [Approved April 23, 1908.]

AN ORDINANCE AUTHORIZING THE CITY TREASURER AND CITY AUDITOR TO ADOPT A UNIFORM SYSTEM OF ACCOUNTING AND PRESCRIBE THE SYSTEM OF BOOKKEEPING TO BE USED BY CERTAIN DEPARTMENTS TO CONFORM WITH THE SAME.

Be it ordained by the City Council of the City of Lowell, as follows:

Section 1. That the office of the City Treasurer be solely a receiving and distributing office, the receipts and payments of which shall be reported monthly to the City Auditor and the accounts of which shall be regularly audited by him.

Sect. 2. That the office of the City Auditor be the accounting office in which shall be kept the general books of the city.

Sect. 3. All departments and offices of the City Government shall keep and furnish such records, in book form or otherwise, as shall be prescribed by the City Treasurer and City Auditor.

Sect. 4. The head of each department, and officers receiving money for the city, shall remit to the City Treasurer as often as once a month all moneys that may be in the possession of such departments or officers belonging to the city, except in such cases where the time for payment to the City Treasurer is prescribed by statute.

Sect. 5. All officers and departments required to deposit bills with the City Treasurer for collection, shall file with the City Auditor an itemized account of the same with the statement of the accounts to which the same should be credited when paid.

Sect. 6. All officers and departments paying fees or money received by them to the City Treasurer, shall file with the City Auditor an itemized statement of the sources from which said fees or moneys were received.

Sect. 7. That all bills rendered the city through its various departments shall be presented direct to and examined by the responsible head or heads of each department, and if found correct shall be approved by them over their own signatures ; that they shall be secured in wrappers of a uniform width and length, which wrappers shall be properly backed in their own respective departments, after which all the bills as approved and wrapped shall be delivered to the City Auditor's office not later than the sixth day of each month, accompanied by a list of the bills and the total amount of the same ; to insure uniformity in the wrappers they shall be furnished by the auditor's office.

Sect. 8. That the bills as received by the City Auditor shall be examined and corrected, and after being approved shall be presented to the Committee on Accounts ; after the approval of the Committee on Accounts the bills shall be retained by the City Auditor who shall issue orders to the City Treasurer for the payment of the same to persons to whom the moneys are due.

Sect. 9. That all blanks for payrolls shall be made on single sheets of uniform length and width, and to insure uniformity in all respects the blanks shall be in such form as may be approved by the City Treasurer and City Auditor ; that all payrolls shall be approved by the heads of departments and transmitted unfolded by him to the City Auditor ; that they shall be examined and approved by the City Auditor and the Committee on Accounts and then transmitted to the City Treasurer with a summary by departments. After payments have been made the payrolls shall be returned to the City Auditor to be filed by him in book form consecutively by audits and alphabetically by departments.

Sect. 10. That in future all amounts due on bills or payrolls shall be turned back to the credit of the department from which the money was drawn at such times as may be agreed upon by the City Treasurer and City Auditor.

Sect. 11. All ordinances or parts of ordinances conflicting with this ordinance are hereby repealed. [Approved December 29, 1908.]

AN ORDINANCE AMENDING AN ORDINANCE ENTITLED "AN ORDINANCE REGULATING HAWKERS AND PEDDLERS."—[Approved July 29, 1897.]

Be it ordained by the City Council of the City of Lowell, as follows :

Section 1. Section 1 of an ordinance entitled "An Ordinance Regulating Hawkers and Peddlers," approved July 29, 1897, is hereby amended by striking out said section and inserting in place thereof the following :

"Section 1. No person who is not engaged in the pursuit of agriculture shall hawk or peddle fruit or vegetables until he has been duly licensed by and has recorded his name and residence with the Board of Police of the City of Lowell and has been assigned a number by said Board, to be worn in such manner as said Board may prescribe. The fee for such license shall be twenty-five dollars (\$25.00) and the license shall continue in force for one year from the date thereof."

Sect. 2. Section 2 of said ordinance is hereby amended by striking out the words "Section 1 of Chapter 68 of the Public Statutes" in the second and third lines thereof and inserting in place thereof the words : "Chapter 345 of the Acts 1906," so as to read as follows :

Sect. 2. No person hawking, peddling, or selling or exposing for sale any of the articles enumerated in Chapter 345 of the Acts of 1906 shall cry his wares to the disturbance of the peace and comfort of the inhabitants of the city.

Sect. 3. Section 3 of said ordinance is hereby amended by striking out the words "Chapter 68 of the Public Statutes" in the second line thereof and inserting in place thereof the words "Chapter 345 of the Acts of 1906" and by inserting after the word "number" in the last line thereof the words "if any," so as to read as follows :

"Sect. 3. No hawker or peddler shall carry or convey any of the articles enumerated in Chapter 345 of the Acts of 1906 in any manner that will tend to injure the public health or disturb the public peace or comfort, nor otherwise than in vehicles and receptacles which have printed on them in letters and figures at least two inches in height the name of the person selling and the number, if any, given him by the Board of Police." [Approved December 30, 1908.]

AN ORDINANCE AMENDING AN ORDINANCE ENTITLED, "REQUIRING THE ASSESSORS OF TAXES TO PUBLISH CERTAIN INFORMATION."

Be it ordained by the City Council of the City of Lowell, as follows :

That the Ordinance entitled "Requiring the Assessors of Taxes to publish certain information," be and the same is hereby amended as follows :

By striking out the word and figure "March 1" in the first line and inserting in place thereof the words "in the month of September." By

striking out the word "ten" in the fourth line and inserting in place thereof the word "five," and by striking out the figures "10,000" in the same line and inserting in place thereof the figures "5,000." By striking out the words "properly arranged" in the fifth line. By striking out the words "real and" in the sixth line, and by striking out the words "in the City of Lowell" in the same line and inserting in place thereof the words "arranged in the order of assessment by streets, together with valuation and tax; the names of all real estate taxpayers." By adding after the words "real estate" in the seventh line the words "arranged in numerical order by streets; valuation of buildings." By adding after the word "land" in the seventh line the words "area, valuation;" and by adding after the word "foot" in the seventh line the words "and tax." Also, by striking out the remaining words of the Ordinance, so as to read as follows:

Section 1. Beginning in the month of September, 1907, and every two years thereafter the Assessors of Taxes of the City of Lowell shall cause to be printed at the expense of their department for general distribution, five thousand (5,000) copies of a list which shall contain the following information: names of all personal estate taxpayers, arranged in the order of assessment by streets, together with valuation and tax; the names of all real estate taxpayers; location of real estate, arranged in numerical order by streets; valuation of buildings; valuation of land; area; valuation per foot; and tax. [Approved March 20, 1909.]

AN ORDINANCE TRANSFERRING THE CARE AND CONTROL OF SCHOOL YARDS AND PLAYGROUNDS FROM THE INSPECTOR OF BUILDINGS TO THE BOARD OF PARK COMMISSIONERS.

Be it ordained by the City Council of the City of Lowell, as follows:

Section 1. That all yards and playgrounds belonging to or connected with Lincoln, Greenhalge, Moody, Riverside and Highland Schools be withdrawn from the care and control of the Inspector of Buildings and placed under the care and control of the Board of Park Commissioners.

Sect. 2. The Board of Park Commissioners may select such of the yards and playgrounds referred to in Section 1 as seem to them suitable and may equip them for public playgrounds whenever appropriations for that purpose are voted by the City Council.

Sect. 3. This ordinance to take effect upon its passage. [Approved July 2, 1909.]

AN ORDINANCE AMENDING CHAPTER 21 OF THE REVISED ORDINANCES.

Be it ordained by the City Council of the City of Lowell, as follows:

That Chapter 21 of the Revised Ordinances be amended as follows: By striking out all of Section 2 after the word "straw" in the eighteenth

line and inserting in place thereof the following : "or any other article, ten cents for each separate load regardless of size or weight. [Approved July 2, 1909.]

AN ORDINANCE AMENDING AN ORDINANCE ENTITLED, "RELATING TO THE SEALER OF WEIGHTS AND MEASURES."

Be it ordained by the City Council of the City of Lowell, as follows :

That the Ordinance entitled, "Relating to the Sealer of Weights and Measures" be and the same is hereby amended as follows :

By striking out in Section 2 all after the word "qualified" in the fifth line and inserting in place thereof the following : "A Deputy Sealer of Weights and Measures shall also be appointed by the Mayor and Aldermen annually in the month of March and shall hold his office for the term of one year from the first day of April in the year of his appointment and until his successor is duly appointed and qualified. He shall perform all duties required by the Sealer of Weights and Measures and in the absence of the Sealer of Weights and Measures he shall exercise all the power and authority exercised by the Sealer of Weights and Measures. The Mayor and Aldermen may at any time remove either said Sealer of Weights and Measures or Deputy Sealer of Weights and Measures and appoint another in his place. [Approved July 2, 1909.]

AN ORDINANCE AMENDING AN ORDINANCE ENTITLED, "AN ORDINANCE PROVIDING FOR THE APPOINTMENT OF A SUPERINTENDENT AND ASSISTANT SUPERINTENDENT OF STATE AID."

Be it ordained by the City Council of the City of Lowell, as follows :

Section 1. Section 1 of an ordinance approved September 27, 1898, and entitled, "An Ordinance Providing for the Appointment of a Superintendent and Assistant Superintendent of State Aid," is hereby amended by striking out said section and inserting in place thereof the following :

"Section 1. Prior to the first day of March of each year there shall be appointed by the Mayor, subject to confirmation by concurrent vote of the City Council, a Superintendent of State Aid and an Assistant Superintendent of State Aid for the City of Lowell, who shall hold their offices during the term of one year from said first day of March, and until their successors are appointed and qualified, unless sooner removed in the manner prescribed by law."

Sect. 2. Section 3 of said ordinance is hereby amended by striking out said section and inserting in place thereof the following :

"Sect. 3. Said Assistant Superintendent of State Aid shall be under the direction of the Superintendent of State Aid and shall assist him in his

duties ; and, in the absence or incapacity of the Superintendent of State Aid, or in case a vacancy shall exist in that office, said Assistant Superintendent of State Aid shall perform all the duties of the Superintendent of State Aid." [Approved February 8, 1910.]

AN ORDINANCE PROVIDING FOR SIGNS ON MUNICIPAL AUTOMOBILES.

Be it ordained by the City Council of the City of Lowell, as follows :

Section 1. Every automobile owned by the City of Lowell shall have painted and at all times displayed on each side of its hood the words "City of Lowell," together with the name of the particular department using the said automobile. The letters shall be not less than six (6) inches in height, and shall be of a color in sharp contrast to that of the hood itself.

Sect. 2. This ordinance shall take effect upon its passage. [Approved October 6, 1910.]

AN ORDINANCE OFFICIALLY DESIGNATING THE LOWELL CITY HOSPITAL AND ALMSHOUSE IN CHELMSFORD STREET AS CHELMSFORD STREET HOSPITAL.

Be it ordained by the City Council of the City of Lowell, as follows :

Section 1. That the Lowell City Hospital and Almshouse in Chelmsford Street be designated and hereafter known as the Chelmsford Street Hospital.

Sect. 2. All ordinances officially designating said institution by any other name than that designated by Section 1 are hereby repealed.

Sect. 3. This ordinance shall take effect upon its passage. [Approved October 6, 1910.]

AN ORDINANCE TO CREATE A COMMISSION TO ERECT A CONTAGIOUS HOSPITAL.

Be it ordained by the City Council of the City of Lowell, as follows :

Section 1. There shall be chosen in the manner hereinafter provided, four citizens of Lowell who, together with the Mayor for the time being, ex-officio, shall constitute a commission to be known as the Contagious Hospital Commission. The members of said commission shall not receive any salary or emolument for their services, and shall, unless sooner removed in the manner provided by law, hold their respective offices until the completion of the building hereinafter mentioned, and upon the declaration by the Mayor in writing filed with the City Clerk that the work contemplated by this ordinance has been fully completed, the authority of said commission shall cease and determine.

Sect. 2. Within thirty (30) days after the enactment of this ordinance, the Board of Aldermen and the Common Council shall meet in joint convention and elect four persons as above specified to be members of said commission. If any member so selected shall decline to serve, or if by the death, resignation or removal from office of any member of said commission a vacancy shall exist, the City Council shall, in joint convention, elect a new member to fill such vacancy.

Sect. 3. Said commission shall have the general charge and management of all matters pertaining to the erection on land of Chelmsford Street Hospital of a modern Contagious Hospital. They shall make all contracts in relation thereto, except for the purchase of material and supplies, but no contract so made involving the expenditure of more than three hundred dollars (\$300.00) shall be valid and binding upon the city until approved by the Mayor in writing; and no expenditure shall be made by said commission under authority of this ordinance until the City Council has duly voted an appropriation therefor.

Sect. 4. The Chairman of the Board of Aldermen and the President of the Common Council shall constitute a committee to submit to said joint convention a list of four names as nominees for commissioners; such names shall be voted on separately, and in case of failure to elect any one or more of the persons so named, new names shall be submitted by said committee until four persons shall have been elected, who, together with the Mayor, shall constitute such commission. [Approved November 29, 1910.]

AN ORDINANCE CREATING A FUND TO BE KNOWN AS THE CITY COUNCIL FUND.

Be it ordained, etc., as follows:

Section 1. There shall be appropriated; annually, a sum of money such as the City Council may deem reasonable and proper, to be known as the City Council Fund.

Sect. 2. Said fund shall be used only to defray the contingent and incidental expenses of the City Council and of any committee thereof; provided, however, that no liability shall be incurred and no expenditure shall be made from, or chargeable to, said fund by or on behalf of any committee of the City Council until the Chairman of the Board of Aldermen and the President of the Common Council have first signified their approval of the same.

Sect. 3. The City Messenger shall approve all bills chargeable to this appropriation and shall keep an account of all expenditures therefrom.

Sect. 4. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Sect. 5. This ordinance shall take effect upon its passage. [Approved July 13, 1911.]

POPULATION, LEGAL VOTERS, ETC., BY WARDS

Wards	Census 1910	Precincts	REGISTERED VOTERS									VOTE FOR		
			Dec. 1909			Nov. 1910			Dec. 1910			MAYOR		
			City Election			State Election			City Election			1910		
			Males	Females	Totals	Males	Females	Totals	Males	Females	Totals	Brown	Meehan	Carroll
1	9601	1	508	3	511	455	2	457	500	2	502	208	201	6
		2	621	23	644	593	19	612	613	19	632	300	225	2
		3	500	31	531	509	21	530	525	21	546	300	142	6
2	14325		1629	57	1686	1557	42	1599	1638	42	1680	808	568	14
		1	533	6	539	485	3	488	513	3	516	151	290	4
		2	493	8	501	447	4	451	470	4	474	103	316	1
3	11590	3	559	9	568	512	6	518	528	6	534	95	382	4
			1585	23	1608	1444	13	1457	1511	13	1524	349	988	9
		1	653	6	659	628	5	633	657	5	662	385	156	5
4	9971	2	669	1	670	664	6	670	691	6	697	412	167	9
		3	665	11	676	662	10	672	669	10	679	371	154	12
			1987	18	2005	1954	21	1975	2017	21	2038	1168	477	26
5	10089	1	459	3	462	425	2	427	445	2	447	113	253	6
		2	504	2	506	471	2	473	484	2	486	94	338	5
		3	576	7	583	544	4	548	564	4	568	111	378	8
6	21001		1539	12	1551	1440	8	1448	1493	8	1501	318	969	19
		1	387	6	393	377	2	379	397	2	399	96	236	3
		2	447	..	447	431	..	431	447	..	447	92	303	2
7	9890	3	583	46	629	519	35	554	545	35	580	101	379	6
			1417	52	1469	1327	37	1364	1389	37	1426	289	918	11
		1	618	27	645	573	23	596	593	24	617	300	223	3
8	9476	2	697	4	701	661	4	665	685	12	697	210	382	5
		3	520	3	523	505	3	508	524	6	530	238	214	7
			1835	34	1869	1739	30	1769	1802	42	1844	748	819	15
9	10351	1	550	106	656	550	102	652	555	102	657	254	196	7
		2	545	75	620	545	63	608	555	63	618	180	305	5
		3	694	77	771	714	76	790	731	76	807	335	297	5
10	106294		1789	258	2047	1809	241	2050	1841	241	2082	769	798	17
		1	597	7	604	611	8	619	615	8	623	348	136	8
		2	609	2	611	583	4	587	594	4	598	388	112	15
11	10351	3	652	3	655	618	3	621	636	3	639	268	241	15
			1858	12	1870	1812	15	1827	1845	15	1860	1004	489	38
		1	560	57	617	559	51	610	575	51	626	219	281	5
12	10351	2	631	47	678	620	43	663	642	43	685	294	207	12
		3	636	75	711	629	69	698	648	69	717	280	288	7
			1827	179	2006	1808	163	1971	1865	163	2028	793	776	24

POPULATION OF THE CITY OF LOWELL

Year	Population	Year	Population	Year	Population	Year	Population
1828	3,532	1840	20,981	1865	30,990	1890	77,696
1830	6,477	1844	25,163	1866	36,878	1895	84,359
1832	10,254	1846	29,127	1870	40,928	1900	94,969
1833	12,963	1850	33,383	1875	49,688	1905	94,889
1836	17,633	1855	37,554	1880	59,485	1910	106,294
1837	18,010	1860	36,827	1885	64,107	....	.....

CITY OFFICERS

WHEN ELECTED OR APPOINTED

“All officers elected or appointed by the City Council, or either branch thereof, shall hold their offices according to the tenure of the same and until their successors are chosen and qualified, unless otherwise provided for.” City Charter, Sec. 17.

AGENT OF THE BOARD OF HEALTH.

Appointed by the Board of Health under civil service rules.

ASSESSORS OF TAXES—Three.

One chosen in the month of January or February by concurrent vote of the City Council for the term of three years. Ordinances, Chapter 3, Sec. 1.

ASSISTANT ASSESSORS—Twelve.

Appointed by the Assessors. Ordinance approved April 23, 1908.

ASSISTANT ENGINEERS OF THE FIRE DEPARTMENT—Four.

Appointed by the Mayor and Aldermen in March or April, the first assistant for a term of three years, the others for one year, commencing May first. Ordinance approved Nov. 27, 1896.

AUDITOR OF ACCOUNTS.

Chosen by concurrent vote of the City Council in January or February, for three years, commencing the first Monday in April. Chap. 373, Acts of 1905.

ASSISTANT CITY CLERK.

Appointed by the City Clerk, subject to confirmation by the Board of Aldermen. Ordinances, Chap. 8, Sec. 2.

BOARD OF CHARITIES—Five.

One member appointed annually by the Mayor for the term of five years from Jan. 15. Chap. 337, Acts of 1905.

BOARD OF HEALTH—Three.

One member appointed by the Mayor and Aldermen in January for the term of three years, commencing the first Monday in February. Revised Laws, Chap. 75, Sec. 9.

BOARD OF PARK COMMISSIONERS—Five.

One member appointed annually by the Mayor with the approval of the City Council for a term of five years from the first Monday in May. Revised Laws, Chap. 28.

BOARD OF POLICE—Three.

One member appointed by the Mayor every two years for the term of six years, commencing the first Monday in June. Chap. 428, Acts of 1894. Chap. 187, Acts of 1895.

CHAIRMAN OF THE BOARD OF ALDERMEN.

Chosen by the Board of Aldermen on the first Monday in January or as soon thereafter as may be. City Charter, Sec. 12.

CHIEF ENGINEER OF THE FIRE DEPARTMENT.

Chosen by concurrent vote of the City Council in March or April for the term of three years, commencing May first. Chap. 95, Sec. 2, Acts of 1897. Ordinance approved November 27, 1896.

CITY CLERK.

Chosen annually by the City Council in convention, as soon after organization as convenient. City Charter, Sec. 17.

CITY MESSENGER.

Chosen by concurrent vote of the City Council in January for the term of one year, commencing the first Monday in February. Ordinances, Chap. 10, Sec. 1.

CITY PHYSICIAN.

Chosen in October or November by concurrent vote of the City Council for three years, commencing December first. Ordinances, 1905.

CITY SOLICITOR.

Chosen by concurrent vote of the City Council in January or February for the term of one year, commencing March first. Ordinances, Chap. 11, Sec. 1.

CITY TREASURER AND COLLECTOR OF TAXES.

Chosen annually by the City Council in convention as soon after organization as convenient, for the term of one year commencing April first. City Charter, Sec. 17, Ordinances, Chap. 9, Sec. 1.

CIVIL ENGINEER FOR THE CITY.

Chosen by concurrent vote of the City Council in January or February for a term of one year, commencing April first. Ordinances, Chap. 13, Sec. 1.

CIVIL SERVICE EXAMINERS—Three.

Appointed by the State Civil Service Commissioners.

CLERK OF COMMITTEES.

Chosen by concurrent vote of the City Council in January for three years. Ordinances, 1900.

CLERK OF COMMON COUNCIL.

Chosen by Common Council on the first Monday in January, or as soon thereafter as may be. City Charter, Sec. 14.

CLERKS EMPLOYED IN DEPARTMENTS.

Appointed by heads of Departments under civil service rules. Chap. 415, Sec. 5, Acts of 1896.

CLERK OF WATER BOARD.

Chosen by the Water Board in June for the term of one year. Ordinances, Chap. 45, Sec. 2.

COMMISSIONERS OF SINKING FUNDS—Three.

One chosen in December by concurrent vote of the City Council for the term of three years, commencing January first. Revised Laws, Chap. 27, Sec. 14.

COMMITTEE ON ACCOUNTS—Three.

On the first Monday in January, or as soon thereafter as may be, one member chosen by the Board of Aldermen from that board, and two members of the Common Council by said council. Chap. 415, Sec. 10, Acts of 1896.

COMMITTEE ON FINANCE—Five.

On the first Monday in January, or as soon thereafter as may be, one member of the Board of Aldermen, to be elected by that board, and three members of the Common Council, to be elected by said council. The Mayor is a member ex-officio. Ordinances, Chap. 1, Sec. 2.

CONSTABLES—Four or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. City Charter, Sec. 19, Ord., Chap. 41, Sec. 2.

ELECTION OFFICERS.

Appointed by the Mayor and Aldermen in August, for the term of one year, commencing September fifteenth. Chap. 560, Acts of 1907.

FENCE VIEWERS—Three.

Nominated by the Mayor in January or February and chosen by concurrent vote, commencing in the Board of Aldermen, for the term of one year. Ordinances, Chap. 41, Sec. 1.

FIELD DRIVERS—Four or more.

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. Ordinances, Chap. 41, Sec. 1.

FIREMEN.

Appointed by the Chief Engineer on recommendation of the Board of Assistant Engineers, under civil service rules. Chap. 173, Acts of 1898.

FISH WARDEN.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Revised Laws, Chap. 91, Sec. 54.

FOREST WARDEN.

Appointed by the Mayor and Aldermen in March or April, subject to approval of the State Forester. Chap. 475, Acts of 1907.

INSPECTOR OF ANIMALS.

Appointed by the Mayor and Aldermen in March, subject to the approval of the Chief of Cattle Bureau, for the term of one year, commencing April first. Revised Laws, Chap. 90, Sec. 1. Chap. 116, Acts of 1902. Chap. 378, Acts of 1908. Chap. 143, Acts of 1911.

INSPECTOR OF BALE OR BUNDLE HAY.

Appointed by the Board of Aldermen in January or February for the term of one year. Ordinances, Chap. 21, Sec. 1.

INSPECTOR OF BUILDINGS.

Chosen by the City Council in January for one year. Building Ordinances 1906, Sec. 3.

INSPECTORS OF THE HEALTH DEPARTMENT.

Appointed by the Board of Health under civil service rules.

INSPECTORS OF PETROLEUM OILS.

Appointed by the Mayor and Aldermen, upon request of five or more citizens. Revised Laws, Chap. 102, Sec. 109.

INSPECTOR OF MILK.

Appointed by the Board of Health. Chap. 405, Acts of 1909.

INSPECTOR OF PROVISIONS.

Appointed by the Board of Health.

INSPECTORS OF WATER DEPARTMENT.

Appointed by Water Board under civil service rules.

INSPECTOR OF WIRES.

Appointed by the Mayor and Aldermen in January for the term of three years commencing February first. Ordinances, 1908.

LIBRARIAN OF THE CITY LIBRARY.

Chosen by the Trustees of the City Library. Chap. 231, Sec. 5, Acts of 1888.

MAYOR'S CLERK.

Appointed by the Mayor. Chap. 415, Sec. 4, Acts of 1896.

MEASURERS OF GRAIN—Two or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chap. 41, Sec. 2.

MEASURERS OF UPPER LEATHER—Two or more.

Appointed by the mayor and Aldermen in April, for the term of one year. Ordinances, Chap. 41, Sec. 2.

MEASURERS OF WOOD AND BARK—Two or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chap. 46, Sec. 2.

MEASURERS OF WOOD AND BARK BROUGHT BY WATER OR RAILROAD CARS INTO THE CITY—Two or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chap. 46, Sec. 1.

POLICE OFFICERS.

Appointed by the Board of Police under civil service rules.

POUND KEEPER.

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. Ordinances, Chap. 41, Sec. 1.

PRESIDENT OF THE COMMON COUNCIL.

Chosen by the Common Council on the first Monday in January, or as soon thereafter as may be. City Charter, Sec. 14.

REGISTRARS OF VOTERS—Three and the City Clerk.

One member appointed by the Mayor and Aldermen in February or March for the term of three years, commencing April first. The City Clerk is a member ex-officio. Chap. 560, Acts of 1907, Sec. 25. Chap. 440, Acts of 1909, Sec. 6.

SEALER OF WEIGHTS AND MEASURES.

Appointed by the Mayor and Aldermen annually in March. Revised Laws, Chap. 62, Sec. 18. Ordinances 1908. Deputy appointed by the Mayor and Aldermen in March for one year from April first. Ordinance 1909. Civil Service applies, Chap. 382, Acts of 1909.

SMOKE INSPECTOR.

Appointed by the Mayor. Revised Laws, Chap. 103, Sec. 125.

SUPERINTENDENT OF CHARITIES.

Appointed by the Board of Charities. Chap. 337, Acts of 1905.

SUPERINTENDENT OF CITY SCALES.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chap. 21, Sec. 1.

SUPERINTENDENT OF PARK DEPARTMENT.

Appointed by the Board of Park Commissioners.

SUPERINTENDENT OF SCHOOLS.

Chosen by the School Committee in July or August for the term of one year. Ordinances, Chap. 40, Sec. 1.

SUPERINTENDENT OF STATE AID AND ASSISTANT.

Appointed by the Mayor and City Council for the term of one year, commencing March first. Ordinance approved September 27, 1898. Amended Ord. approved February 8, 1910.

SUPERINTENDENT OF STREETS.

Chosen by concurrent vote of the City Council in January or February for the term of one year. Ordinances, Chap. 39, Sec. 1.

SUPERINTENDENT OF WATER WORKS.

Chosen by the Water Board in March for the term of one year, commencing April first. Ordinances, Chap. 45, Sec. 2.

SURVEYORS OF HIGHWAYS.

Chosen by concurrent vote of the City Council in January or February for the term of one year. City Charter, Sec. 17, Ordinances, Chap. 39, Sec. 1.

SURVEYORS OF LUMBER—Four or more.

Nominated by the Mayor in January or February and chosen by concurrent vote of the City Council, commencing in the Board of Aldermen, for the term of one year. Ordinances, Chap. 39, Sec. 1.

SURVEYORS OF PLASTERING, BRICK OR STONE WORK AND PAINTING—Four or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chap. 41, Sec. 2.

TRUANT COMMISSIONERS.

Appointed by the School Committee. Revised Laws, Chap. 46, Sec. 12.

TRUSTEES OF PUBLIC LIBRARY—Five and the Mayor.

One member appointed in December by the Mayor and Aldermen for the term of five years, commencing the second Monday in January. The Mayor is a member ex-officio. Ordinances, Chap. 14, Sec. 2.

TRUSTEES OF PUBLIC BURIAL GROUNDS—Five.

One member appointed by the Mayor annually in April for the term of five years. Chap. 242, Acts of 1907.

WATER BOARD—Four.

One member chosen in January or February by concurrent vote of the City Council for the term of four years, commencing the second Monday in March. Ordinances, Chap. 45, Sec. 1.

WEIGHERS OF COAL—One or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chap. 41, Sec. 2.

WEIGHERS OF HAY AND OTHER ARTICLES—Two or more.

Appointed by the Mayor and Aldermen in January or February for the term of one year. Ordinances, Chap. 21, Sec. 1.

CATALOGUE

OF THE

Government of the City of Lowell

IN

Chronological Order of Service

From Its Institution in 1836, to 1910, Inclusive

1836.**MAYOR:****ELISHA BARTLETT.****ALDERMEN:**

William Austin, resigned Oct. 10.	Benjamin Walker.
Joseph Tapley, elected November.	Oliver M. Whipple.
Seth Ames.	Alexander Wright.
Aaron Mansur.	

SAMUEL A. COBURN, City Clerk.**COMMON COUNCIL:**

John Clark, President.	Stephen Mansur.
Henry J. Baxter.	John Mixer.
Jonathan Bowers.	Thomas Nesmith.
George Brownell.	David Nourse.
James Cook.	Thomas Ordway.
David Dana.	James Russell.
Erastus Douglass.	John A. Savels.
Josiah B. French.	Sidney Spalding.
Cyril French.	Weld Spalding.
Samuel Garland.	Jonathan Tyler.
Horatio W. Hastings.	Tappan Wentworth.
Horace Howard.	William Wyman.

GEORGE WOODWARD, Clerk, died. ALBERT LOCKE, elected.**1837.****MAYOR:****ELISHA BARTLETT, † '36.****ALDERMEN:**

Seth Ames, *'36.	Joseph G. Kittredge.
John Aiken.	Joshua Swan.
Seth Chellis	Alexander Wright, *'36.

SAMUEL A. COBURN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Joshua Abbott.
James K. Fellows.
Jesse Phelps.
Walter Wright.

WARD 2.

William Fiske.
Thomas Nesmith, '36.
Josiah Osgood.
Joseph Tyler.

WARD 3.

Joseph M. Dodge.
Elisha Huntington, President.
William North.
Joseph Tapley.

WARD 4.

William Baker.
Elijha M. Read.
Charles H. Wilder.
William W. Wyman.

WARD 5.

George Brownell, '36.
Osgood Dane.
James Russell, '36.
Tappan Wentworth, '36.

WARD 6.

Andrew Bird.
Benjamin H. Gage.
Jona. T. P. Hunt.
Abram Tilton.

ALBERT LOCKE, Clerk.

The figures without other marks indicate membership of the Common Council those years. † Mayor that year. * Alderman that year. ‡ President of the Common Council that year.

1838**MAYOR:****LUTHER LAWRENCE.****ALDERMEN:**

Benjamin F. French.
 Charles L. Tilden.
 Oliver M. Whipple, *'36.

George H. Carleton.
 George Brownell, '36, '37.
 Seth Chellis, *'37.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Jesse Phelps, '37.
 Walter Wright, '37.
 Eliphalet Brown.
 Perez Fuller.

WARD 2.

William Fiske, '37.
 Aaron H. Sherman.
 William Upham.
 Henry J. Baxter, '36.

WARD 3.

Thomas Hopkinson.
 Elisha Huntington, †'37, President.
 Horace Howard, '36.
 John Mixer, '36.

WARD 4.

David Dana, '36.
 Perley Hale.
 Benjamin Walker, *'36.
 William Baker, '37.

WARD 5.

Garret J. Bradt.
 Benjamin Wilde.
 Erastus Douglass, '36.
 Rufus Paul.

WARD 6.

Eli Cooper.
 Thomas L. Randlett.
 James L. Foot.
 Calvin Goodspeed.

ALBERT LOCKE, Clerk.**1839.****MAYOR:****LUTHER LAWRENCE. —[Died in April.]****ELISHA HUNTINGTON, †'37, †'38.****ALDERMEN:**

Benjamin F. French, *'38.
 John O. Green.
 Charles L. Tilden, *'38.

George H. Carleton, *'38.
 John Clark, †'36.
 Oliver M. Whipple, * 36, *'38.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Walter Wright, '37, '38.
 Harlin Pillsbury.
 Eliphalet Brown, '38.
 Forrest Eaton.

WARD 2.

Jonathan Tyler, '36.
 John Nesmith.
 Henry J. Baxter, '36, '38.
 Jefferson Bancroft.

WARD 3.

Thomas Hopkinson, '38, President.
 Jacob Robbins.
 John G. Locke.

WARD 4.

Benjamin Walker, *'36, '38.
 Samuel Horn.
 Stephen Carleton.
 Stephen Mansur, '36.

WARD 5.

Tappan Wentworth, '36, '37.
 Lewis McIntire, died Feb., 1840.
 Benjamin Wilde, '38.
 Garret J. Bradt, '38.

WARD 6.

Thomas L. Randlett, '38.
 Joseph S. Holt.
 John L. Fitts.
 Daniel Knapp.

ALBERT LOCKE, Clerk.

1840.**MAYOR:****ELISHA HUNTINGTON, † '37, † '38, † '39.****ALDERMEN:**

Jonathan Tyler, '36, '39.
John R. Adams.
Joseph Bedlow.

Harlin Pillsbury, '39.
Seth Ames, *'36, *'37.
Stephen Mansur, '36, '39.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Forrest Eaton, '39.
Sylvanus Adams.
Henry Patch.
R. M. Hutchinson.

WARD 2.

Jefferson Bancroft, '39.
John Nesmith, '39.
Joseph G. Kittredge, *'37.
Josiah Osgood, '37.

WARD 3.

Pelham W. Warren, President.
Abner W. Buttrick.
Asa Hall.
Samuel Burbank.

WARD 4.

Ferdinand Rodliff.
Ethan Burnap.
Edward F. Watson.
B. Walker, *'36, '38, '39, died Sept.

WARD 5.

Tappan Wentworth, '36, '37, '39.
Samuel W. Brown.
John J. Crane.
George Dane.

WARD 6.

Daniel Knapp, '39.
George L. Fitts, '39.
Joseph Battles.
Joshua Converse.

ALBERT LOCKE, Clerk, died October. JOHN G. LOCKE, elected October.**1841.****MAYOR:****ELISHA HUNTINGTON, † '37, † '38, † '39, † '40.****ALDERMEN:**

Seth Chellis, *'37, '38.
Jefferson Bancroft, '39, '40.
Cyril French, '36.

George H. Carleton, *'38, *'39.
John R. Adams, *'40.
John Aiken, *'37.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Henry Patch, '40.
George Bragdon.
John W. Holland.
Arnold Welch.

WARD 2.

William Fiske, '37, '38.
Erasmus D. Leavitt.
Jonathan White.
Nathaniel Wilson.

WARD 3.

Samuel Burbank, '40.
Nathaniel Critchett.
Royal Southwick.
Edward Winslow.

WARD 4.

Ethan Burnap, '40.
William Livingston.
John Morrison.
Edward F. Watson, '40.

WARD 5.

Tappan Wentworth, '36, '37, '39, '40, Pres
Samuel W. Brown, '40.
John J. Crane, '40.
Phineas Whiting.

WARD 6.

Francis H. Bowers.
Isaac H. Cooper.
William Potter.
John Smith.

JOHN G. LOCKE, Clerk.

1842.**MAYOR:****NATHANIEL WRIGHT.****ALDERMEN:**

Nathaniel Thurston.
 Jefferson Bancroft, '39, '40, '41.
 Cyril French, '36, *'41.

William Livingston, '41.
 Ithamar A. Beard.
 John W. Graves.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Jeremiah P. Jewett.
 John Hadley.
 James Townsend.
 Edward J. Payne.

WARD 2.

John Nesmith, '39, '40.
 Erasmus D. Leavit, '41.
 Joseph W. Mansur, President.
 James Hopkins.

WARD 3.

Nathaniel Critchett, '41.
 Ira Spalding.
 John Mead.
 Asa W. Willoughby.

WARD 4.

John Morrison, '41.
 William Carlton.
 Oliver March.
 Josiah B. French, '36.

WARD 5.

James Patterson.
 Isaac Appleton.
 Josiah Seavey.
 Roswell Douglass.

WARD 6.

James Russell, '36, '37.
 Jonathan Kendall.
 Varnum A. Shed.
 Isaac N. Fitts.

JOHN G. LOCKE, Clerk.**1843.****MAYOR:****NATHANIEL WRIGHT, †'42.****ALDERMEN:**

Harlin Pillsbury, '39, *'40, res'd June.
 Henry C. Johnson.
 Cyril French, '36 *'41, *'42.

S. Spalding, '36, res'd in June.
 Joseph Griffin.
 Charles L. Tilden, *'38, '39.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Daniel Bixby.
 Edward J. Payne, '42.
 Hugh Commiskey.
 Walter Wright, '37, '38, '39.

WARD 2.

Henry J. Baxter, '36, '38, '39.
 John P. Simonds.
 Pliny Lawton.
 Ben Osgood.

WARD 3.

John Mead, '42.
 Willard Brown.
 Ira Spalding, '42.
 Benjamin J. Gerrish.

WARD 4.

Otis Allen.
 Alfred Gilman.
 Oliver March, '42, President.
 William Carlton, '42.

WARD 5.

James Patterson, '42.
 David Bradt.
 John L. Tripp.
 Benjamin F. Holden.

WARD 6.

John B. McAlvin.
 Cyrus Battles.
 Sewall G. Mack.
 Charles F. Mitchell.

JOHN G. LOCKE, Clerk.

1844.**MAYOR:****ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41.****ALDERMEN:**

Henry Smith.
 Selwin Bancroft,
 O. M. Whipple, *'36, *'38, *'39.

Edward F. Watson, '40, '41.
 Joseph Griffin, *'43.
 John Wright.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Forrest Eaton, '39, '40.
 Gilman N. Nichols.
 Hugh Cumiskey, '43.
 David Healey.

WARD 2.

John P. Simonds, '43.
 Ben Osgood, '43.
 Amos Merriam.
 John Clark, †'36, *'39, President.

WARD 3.

Charles B. Coburn.
 George Choate.
 Isaac Scripture.
 William C. Gray.

WARD 4.

Asa Wetherbee.
 Abner W. Buttrick, '40.
 Horatio G. F. Corliss.
 Charles H. Wilder, '37.

WARD 5.

John L. Tripp, '43.
 David Bradt, '43.
 John Wright.
 Nathaniel Wright, Jr.

WARD 6.

Sewall G. Mack, '43.
 James Russell, '36, '37, '42.
 Jonathan Kendall, '42.
 Gilman Gale.

JOHN G. LOCKE, Clerk.**1845.****MAYOR:****ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44.****ALDERMEN:**

Henry Smith, *'44.
 Selwin Bancroft, *'44.
 O. M. Whipple, *'36, *'38, *'39, *'44.

Edward F. Watson, '40, '41, '44.
 John C. Dalton.
 Daniel Knapp, '39.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Gilman N. Nichols, '39.
 Danforth P. Brigham.
 Jonathan Adams.
 Willard C. Welch.

WARD 2.

John P. Simonds, '43, '44.
 Daniel Balch.
 William Brown.
 Daniel S. Richardson, President.

WARD 3.

Isaac Scripture, '44.
 William C. Gray, '44.
 George Choate, '44.
 Hapgood Wright.

WARD 4.

Abner, W. Buttrick, '40 '44.
 Asa Wetherbee, '44.
 Charles H. Wilder, '37, '44.
 Josiah Sawtell.

WARD 5.

Nathaniel Wright, Jr., '44.
 Amos Hyde.
 Edward Sherman.
 James Fenno.

WARD 6

Gilman Gale, '44.
 John B. McAlvin, '43.
 Samuel Fay, Jr.
 Lorenzo P. Wright.

JOHN G. LOCKE, Clerk.

1846.**MAYOR:****JEFFERSON BANCROFT, '39, '40, *'41, *'42.****ALDERMEN:**

Henry Smith, *'44, *'45.
 Selwin Bancroft, *'44, *'45.
 William C. Gray, '44, '45.
 Joseph Butterfield.

John C. Dalton, '45.
 D. Knapp, '39, *'45, resigned in July
 Isaac Corper, '41, elected in August.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Gilman N. Nichols, '39, '45.
 Danforth P. Brigham, '45.
 Willard C. Welch, '45.
 Thomas S. Hutchinson.

WARD 2.

Daniel Balch, '45.
 William Brown, '45.
 Daniel S. Richardson, †'45, President.
 Zadock Rogers.

WARD 3.

Hapgood Wright, '45.
 Isaac Farrington.
 Joel Powers.
 Franklin Mead.

WARD 4.

Josiah Sawtell, '45.
 Solon Stevens.
 David J. Moody.
 William Fletcher.

WARD 5.

Amos Hyde, '45.
 Horatio G. F. Corliss, '44.
 Jonathan Bowers, '36.
 Charles M. Short.

WARD 6.

Lorenzo P. Wright, '45.
 John L. Fitts, '39, '40.
 Lewis Packard.
 Columbus J. Hubbard.

JOHN G. LOCKE, Clerk.**1847.****MAYOR:****JEFFERSON BANCROFT, '39, '40, *'41, *'42, †'46.****ALDERMEN:**

George Bragdon.
 Joseph Butterfield, *'46.
 Linus Child.
 James Fenno, '45.

Elisha Huntington, †'37, †'38, †'39, †'40,
 †'41, †'44, †'45.
 Sewall G. Mack, '43, '44.
 Stephen Mansur, '36, '39, *'40.
 Josiah Sawtell, '45, '46.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

William Conihe.
 James C. Crombie.
 David S. Bachelder,
 Jesse Huse.

WARD 2.

Samuel W. Brown, '40, '41.
 Hannibal Powers.
 William Newman.
 Otis L. Allen.

WARD 3.

Joel Powers, '46.
 Franklin Mead, '46.
 Isaac Farrington, '46.
 Samuel G. Davis.

WARD 4.

Joel Adams, President.
 Horatio Fletcher.
 Solon Stevens, '46.
 Stephen A. Coburn.

WARD 5.

Ignatius Tyler.
 Edward C. Johnson.
 Elihu Gates.
 Charles M. Short, '46.

WARD 6.

Thomas Wentworth.
 Isaac N. Parker.
 John R. Southwick.
 Isaiah Morse.

JOHN G. LOCKE, Clerk.

1848.**MAYOR:****JEFFERSON BANCROFT, '39, '40, *'41, *'42, †'46, †'47.****ALDERMEN:**

David Dana, '36, '38.

Erastus Douglass, '36, '38.

Jacob Graves, resigned in June.

William Newman, '47.

Gilman N. Nichols, '39, '45, '46.

Daniel S. Richardson, †'45, †'46.

Josiah Sawtell, '45, '46, *'47.

O. M. Whipple, *'36, *'38, *'39, *'45.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

William Conihe, '47.

James C. Crombie, '47.

Jesse Huse, '47.

Gerry Wilson.

WARD 2.

Otis L. Allen, '47.

William H. Flagg.

John Nesmith, '39, '40, '42.

Hannibal Powers, '47.

WARD 3.

Alfred Gilman, '43.

Thomas Hopkinson, '38, '39, President.

Ransom Reed.

Nathaniel Critchett, '41, '42.

WARD 4.

John Avery.

Otis Allen, '43.

Abiel Rolfe.

Horace Howard, '36, '38.

WARD 5.

Ignatius Tyler, '47.

Elihu Gates, '47.

Edward C. Johnson, '47.

Charles M. Short, '46, '47.

WARD 6.

Thomas Wentworth, '47.

Isaac N. Parker, '47.

Jeremiah M. Currier.

Horace Parmenter.

JOHN G. LOCKE, Clerk.**1849.****MAYOR:****JOSIAH B. FRENCH, '36, '42.****ALDERMEN:**

James B. Francis.

Cyril French, '36, *'41, *'42, *'43.

James H. B. Ayer.

Daniel D. Crombie.

Daniel Carter.

George Brownell, '36, '37, *'38.

Artemas L. Brooks.

Joseph Bedlow, *'40.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

Jesse Huse, '47, '48, resigned in February.

William A. Richardson, elected in March.

Gerry Wilson, '48.

John W. Smith.

Alfred S. Saunders.

WARD 2.

William H. Flagg, '48.

Ivers Taylor.

Isaac S. Morse, resigned.

Ambrose Lawrence.

WARD 3.

Alfred Gilman, '43, '48.

Elisha Davis.

James Dinsmoor.

Andrew C. Wheelock.

WARD 4.

Nathaniel B. Favor.

Caleb Crosby.

Ezekiel Wright.

Waldo A. Fisher.

WARD 5.

Maynard Bragg.

Joshua Decatur.

Abram T. Melvin.

W. W. Morse.

WARD 6.

William Lamson, Jr.

Jeremiah M. Currier, '48.

George S. Wright.

John Aiken, *'37, *'41, **President.****GEORGE A. BUTTERFELD, Clerk.**

1850.**MAYOR:****JOSIAH B. FRENCH, '36, '42, † '49.****ALDERMEN:**

James H. B. Ayer, *'49.
 Joseph Bedlow, *'40, *'49.
 Daniel D. Crombie, *'49.
 James B. Francis, *'49.

Philip Hardy.
 John Mixer, '36, '38.
 Josiah G. Peabody.
 James Townsend, '42.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

John W. Smith, '49.
 Daniel R. Kimball.
 James Watson.
 Jonathan Smothers.

WARD 2.

Ivers Taylor, '49, President.
 George Gardner.
 Samuel Lawrence, 2d.
 Samuel J. Varney.

WARD 3.

Jonathan Page.
 John Tripp.
 Fordyce Coburn.
 Joshua Merrill.

WARD 4.

Abner W. Buttrick, '40, '44, '45.
 Caleb Crosby, '49.
 Benjamin Goddard.
 Nathaniel B. Favor, '49.

WARD 5.

George P. Elliot.
 William Fiske, '37, '38, '41.
 George W. Worthen.
 Maynard Bragg, '49.

WARD 6.

Albert Mallard.
 Stephen P. Sargent.
 George S. Wright, '49.
 Wm. Lampson, Jr., '49, resigned in May

GEO. A. BUTTERFIELD, Clerk, res'd May. WM. LAMSON, JR., elected May.**1851.****MAYOR:****JAMES H. B. AYER, *'49, *'50.****ALDERMEN:**

William Fiske, '37, '38, '41, '50.
 Ambrose Lawrence, '49.
 James Townsend, '42, *'50.
 Philip Hardy, *'50.

William North, '37.
 Abiel Rolfe, '48.
 Lucius A. Cutler.
 Joshua Converse, 40.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**

James Watson, '50.
 Jonathan Smothers, '50.
 Charles B. Coburn, '44.
 Stephen Moar.

WARD 2.

Linus Child, *'47.
 George Gardner, '50, President.
 Samuel J. Varney, '50.
 Zachariah B. Caverly.

WARD 3.

Fordyce Coburn, '50.
 William Twichell.
 Darius C. Brown.
 Benjamin C. Sargeant.

WARD 4.

Benjamin Goddard, '50.
 Richard Dennis.
 Holland Streeter.
 Solomon D. Emerson.

WARD 5.

George P. Elliot, '50.
 Edward Fifield.
 John N. Ford.
 Theodore H. Sweetser.

WARD 6.

George W. Worthen, '50.
 George W. Jones, died in September.
 Stephen P. Sargent, '50.
 Albert Mallard, '50.

WILLIAM LAMSON, JR., Clerk,

1852.**MAYOR:****ELISHA HUNTINGTON**, †'37, †'38, †'39, †'40, †'41, †'44, †'45, *'47.**ALDERMEN:**

Joseph Bedlow, *'40, *'49, *'50.

Joseph M. Bullens.

Samuel Burbank, '40, '41.

Joseph B. V. Coburn.

Wm. Fiske, '37, '38, '41, '50, *'51.

William North, '37, *'51.

Alpha Stevens.

Samuel J. Varney, '50, '51.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**Rufus Rogers.
John C. Smith.
Jeremiah Clark.
Paul Hill.**WARD 2.**Paul Perkins.
Milton Bonney.
William Hovey.
Zachariah B. Caverly, '51.**WARD 3.**Darius C. Brown, '51.
William Twichell, '51.
Benjamin C. Sargeant, '51, President.
Michael B. Caswell.**WARD 4.**Holland Streeter, '51.
Elbridge Livingston.
Abram French.
Willard Minot.**WARD 5.**Edward Fifield, '51.
Phineas Whiting, '41.
George W. Patterson.
Jonathan Kendall, '42, '44.**WARD 6.**Leonard W. Jaquith.
Seth Pooler.
Caleb G. Weaver.
William C. Parker.**WILLIAM LAMSON, JR.**, Clerk.**1853.****MAYOR:****SEWALL G. MACK**, '43, '44, *'47.**ALDERMEN:**Elisha Huntington, †'37, †'38, †'39, †'40,
†'41, †'44, †'45, *'47, †'52.

Samuel K. Hutchinson.

Stephen Mansur, '36, '39, *'40, *'47.

Joseph B. V. Coburn, *'52.

Ira Spalding, '42, '43.

Joseph M. Bullens, *'52.

Alpha Stevens, *'52.

Joseph White.

THOMAS ORDWAY, City Clerk.**COMMON COUNCIL:****WARD 1.**Rufus Rogers, '52.
John C. Smith, '52.
Marcus A. Thomas.
James Cook, '36.**WARD 2.**Paul Perkins, '52.
Milton Bonney, '52.
George G. Bumpus.
George W. Stanley.**WARD 3.**Michael B. Caswell, '52.
Calvin Philbrick.
Leonard Brown.
Henry H. Wilder.**WARD 4.**Abram French, '52.
Henry C. Howe.
Joseph S. Grush.
Samuel K. Pickering.**WARD 5.**George W. Patterson, '52.
William A. Richardson, '49, President.
Patrick Conlan.
Jonathan Bowers.**WARD 6.**Caleb G. Weaver, '52.
William C. Parker, '52.
George F. Woods.
C. F. Blanchard.**WILLIAM LAMSON, JR.**, Clerk.

1854.**MAYOR:****SEWALL G. MACK, '43, '44, *'47, †'53.****ALDERMEN:**

Elisha Huntington, †'37, †'38, †'39, †'40, Joseph White, *'53.
 †'41, †'44, †'45, *'47, †'52, *'53. Horatio Fletcher, 47.
 J. B. V. Coburn, *'52, *'53, res'd in Jan. C. F. Blanchard, '53.
 Samuel K. Hutchinson, *'53. Charles Sperry.
 Ira Spalding, '42, '43, *'53.

WILLIAM LAMSON, JR. City Clerk.**COMMON COUNCIL:****WARD 1.**

John C. Smith, '52, '53.
 Paul Hill, '52.
 Marcus A. Thomas, '53.
 Thomas Lennon.

WARD 2.

George W. Stanley, '53.
 William H. Gage.
 Amos A. Taylor.
 William H. Bradley.

WARD 3.

Calvin Philbrick, '53.
 Leonard Brown, '53, declined.
 Darius C. Brown, '51, '52, elected.
 Henry H. Wilder, '53.
 Peter O. C. Frawley.

WARD 4.

Henry C. Howe, '53.
 Joseph S. Grush, '53.
 Samuel K. Pickering, '53.
 Hubbard Wilson.

WARD 5.

Wm. A. Richardson, '49, †'53, **President.**
 Jonathan Bowers, '53.
 Patrick Conlan, '53.
 John C. Woodward.

WARD 6.

George F. Woods, '53.
 Charles S. Eastman.
 Levi H. Straw.
 William P. Webster.

LEONARD BROWN, Clerk.**1855.****MAYOR:****AMBROSE LAWRENCE, '49, '51.****ALDERMEN:**

Wm. Fiske, '37, '38, '41, '50, *'51, *'52. Andrew T. Nute.
 Artemas L. Brooks, *'49. Abner Frost.
 Daniel Woodward. William S. Johnson.
 Lorenzo G. Howe. Shadrach R. Brackett.

WILLIAM LAMSON, JR., City Clerk.**COMMON COUNCIL:****WARD 1.**

Maynard Bragg, '49, '50.
 Aaron B. Young.
 Augustus B. Roby.
 George L. Harris.

WARD 2.

William G. Morse.
 George K. Paul.
 Mark H. Cook.
 Joseph A. Patten.

WARD 3.

Alfred Gilman, '43, '48, '49, **President.**
 Daniel Murd.
 Theodore Warren.
 Stephen K. Fielding.

WARD 4.

Joshua W. Daniels.
 John Bennett.
 Alanson Folsom.
 Francis H. Nourse.

WARD 5.

John C. Woodward, '54.
 Stephen Bartlett.
 Jonathan Johnson.
 Oliver P. Rand.

WARD 6.

Levi H. Straw, '54.
 William T. Whitten.
 Lucien P. Stacy.
 James M. Moore.

LEONARD BROWN, Clerk.

1856.**MAYOR:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44, †'45, *'47,
†'52, *'53, *'54.

ALDERMEN:

Edward Tuck.	Charles H. Wilder, '37, '44, '45.
Samuel Burbank, '40, '41, *'52.	O. J. Conant, resigned in March.
Charles B. Coburn, '44.	James H. Rand.
William P. Webster, '54.	Jonathan Johnson, elected in June.
Hapgood, Wright, '45, '46.	

WILLIAM LAMSON, JR., City Clerk.

COMMON COUNCIL:**WARD 1.**

Enos O. Kingsley.
Abiel Pevey.
David M. Collins.
Marshall E. Thompson.

WARD 2.

Isaac Hinckley.
Seth Gage.
Peter Flanders, Jr.
Leonard F. Jewell.

WARD 3.

David Rogers.
Benj. C. Sargeant, '51, †'52, President.
Henry H. Carroll.
Peter Powers.

WARD 4.

Francis H. Nourse, '55.
Alden B. Buttrick.
Holland Streeter, '51, '52.
James Sands.

WARD 5.

Frederick Holton.
Isaac Place.
Albert Wheeler.
Abiel Rolfe, '48, *'51.

WARD 6.

Eliphalet Hills.
Jonathan P. Folsom.
James K. Fellows, '37.
John K. Chase.

JAMES J. MAGUIRE, Clerk.

1857.**MAYOR:**

STEPHEN MANSUR, '36, '39, *'40, *'47, *'53.

ALDERMEN:

Andrew T. Nute, *'55.	John B. Tuttle.
John C. Woodward, '54, '55.	Francis H. Nourse, '55, '56.
Jonathan Smothers, '50, '51.	Jonathan Johnson, '55, *'56.
Samuel W. Stickney.	John Nesmith, '39, '40, '42, '48.

WILLIAM LAMSON, JR., City Clerk.

COMMON COUNCIL:**WARD 1.**

Abiel Pevey.
Stephen T. Stanley.
Charles A. Welch.
George F. Scribner.

WARD 2.

William G. Morse, '55.
William D. Vinall.
Temple Tebbetts.
James M. Howe.

WARD 3.

Benjamin C. Sargeant, '51, †'52, †'56.
David Rogers, '56.
Henry H. Carroll, '56.
Nathan Allen.

WARD 4.

Caleb Crosby, '49, '50.
John F. Howe.
John C. Jepson.
Alanson Nichols.

WARD 5.

Frederick Holton, '56, President.
William H. Wigin.
William Goodale.
Charles Hubbard.

WARD 6.

Erastus Boyden.
Jonathan Kimball.
Robert J. Garrett.
William Nichols.

HENRY A. LORD, Clerk.

1858.**MAYOR:**

ELISHA HUNTINGTON, † '37, † '38, † '39, † '40, † '41, † '44, † '45, * '47, † '52, * '53, * '54, † '56.

ALDERMEN:

Sewall G. Mack, '43, '44, * '47, † '53, † '54. Joseph M. Dodge, '37.
 Samuel W. Stickney, * '57. Harvey Silver.
 Abiel Pevey, '56, '57. Albert Wheeler, '56.
 Jeremiah P. Jewett, 42. Edwin A. Alger.

JOHN H. McALVIN, City Clerk.

COMMON COUNCIL:**WARD 1.**

Charles Wilkins.
 John M. Maynard.
 John E. Webb.
 William Barnard.

WARD 2.

Edward Tuck, * '56.
 William P. Webster, '54, * '56.
 Andrew Blood.
 William F. Salmon.

WARD 3.

Benjamin C. Sargeant, '51, † '52, † '56, '57, President.
 Hanover Dickey.
 Joseph A. Brabrook.
 Benjamin S. Butterworth.

WARD 4.

Enoch P. Young.
 Zephaniah Goward.
 Jesse Blake.
 John F. Howe, '57.

WARD 5.

Willard Dudley.
 Samuel T. Manahan.
 Isaac Page.
 John Avery, 2d.

WARD 6.

William Nichols, '57.
 Alpha B. Farr, resigned in January.
 Leonard Brown, '53, '54, elected in Feb.
 Erastus Boyden, '57.
 James H. Rand, * '56, resigned in May.
 Eben'r Burgess, elected in June.

GEORGE GARDNER, Clerk.

1859.**MAYOR:**

JAMES COOK, '36, '53.

ALDERMEN:

Lorenzo G. Howe, * '55.
 Samuel J. Varney, '50, '51, * '52.
 Paul Hill, '52, '54.
 Ambrose Lawrence, '49, '51, † '55, resigned in April.
 Darius C. Brown, '51, '52.

John F. Howe, '57, '58.
 Joshua Converse, '40, * '51, res'd in April.
 J. P. Folsom, '56, resigned in April.
 Edward Tuck, * '56, '58, elected in May.
 Samuel T. Manahan, '58, elected in May.
 Jonathan Ladd, elected in May.

JOHN H. McALVIN, City Clerk.

COMMON COUNCIL:**WARD 1.**

John E. Webb, '58.
 Charles Wilkins, '58.
 William Barnard, '58.
 William D. Blanchard.

WARD 2.

W. P. Webster, '54, * '56, '58, President.
 William F. Salmon, '58.
 James M. Howe, '57.
 David Nichols.

WARD 3.

George Hobson.
 Asahel D. Puffer.
 John Willoughby.
 Benjamin S. Butterworth, '58.

WARD 4.

Caleb Crosby, '49, '50, '57.
 Jesse Blake, '58.
 George W. Partridge.
 George W. Young.

WARD 5.

Horatio G. F. Corliss, '44, '46.
 Luther B. Morse.
 Josiah G. Peabody, * '50.
 William Goodale, '57.

WARD 6.

Charles A. Stott.
 Levi Sprague.
 Ebenezer Burgess, '58.
 Leonard Brown, '53, '54, '58.

GEORGE GARDNER, Clerk.

1860.**MAYOR:****BENJAMIN C. SARGEANT, '51, † '52, † '56, '57, † '58.****ALDERMEN:**

Edward F. Watson, '40, '41, *'44, *'45. Henry H. Wilder, '53, '54.
 Lorenzo G. Howe, *'55, *'59. Abner Frost, *'55.
 James Watson, '50, '51. Samuel T. Manahan, '58, *'59.
 William G. Morse, '55, '57. William S. Gardner.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Benjamin S. Ireson.
 Enoch Quimby.
 John P. Slocum.
 Amos H. Foster.

WARD 2.

Henry P. Clough.
 Alfred S. Saunders, '49.
 Wm. F. Salmon, '58, '59, President.
 Joseph L. Sargent.

WARD 3.

George Hobson, '59.
 Josiah B. Fielding.
 Henry P. Perkins.
 Hocum Hosford.

WARD 4.

George W. Partridge, '59.
 George W. Young, '59.
 Morrill M. Bohonan.
 Caleb Crosby, '49, '50, '57, '59.

WARD 5.

Josiah G. Peabody, *'50, '59.
 Sullivan L. Ward.
 George F. Morey.
 William H. Lamson.

WARD 6.

William Nichols, '57, '58.
 Samuel T. Lancaster.
 Charles A. Stott, '59.
 Foster Nowell.

GEORGE GARDNER, Clerk.**1861.****MAYOR:****BENJAMIN C. SARGEANT, '51, † '52, † '56, '57, † '58, † '60.****ALDERMEN:**

Samuel T. Manahan, '58, *'59, *'60. Aldis L. Waite.
 Jonathan P. Folsom, '56, *'59. David Whitney, declined acceptance.
 James Watson, '50, '51, *'60. Sager Ashworth, elected in May.
 William G. Morse, '55, '57, *'60. William S. Gardner, *'60.
 Hocum Hosford, '60.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Frank E. Jewett.
 M. Gilbert Perkins.
 Jacob Baron.
 William D. Blanchard, '59.

WARD 2.

Alfred S. Saunders, '49, '60.
 Joseph L. Sargent, '60.
 Henry P. Clough, '60.
 Henry S. Orange.

WARD 3.

William L. North, President.
 George W. Norris.
 Henry P. Perkins, '60.
 James G. Morrison.

WARD 4.

Joseph Cater.
 Joseph B. Keyes.
 Morrill M. Bohonan, '60.
 Abel M. Ayer.

WARD 5.

Sullivan L. Ward, '60.
 Samuel Beck.
 William H. Parker.
 George F. Morey, '60.

WARD 6.

Samuel T. Lancaster, '60.
 Foster, Nowell, '60.
 Elon A. Sanborn.
 George E. Dana.

GEORGE GARDNER, Clerk.

1862.**MAYOR:****HOCUM HOSFORD, '60, *'61.****ALDERMEN:**

Mertoun C. Bryant.
 Edwin A. Alger, *'58.
 James B. Francis, *'49, *'50.
 William A. Burke.

Isaac F. Scripture.
 Aldis L. Waite, *'61.
 Albert Wheeler, '56, *'58.
 Jona. P. Folsom, '56, *'59, *'61.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1**

Amos D. Wright.
 Frank E. Jewett, '61.
 Horatio G. Burgess.
 Charles F. Hard.

WARD 2.

Benedict O. Carpenter.
 William T. McNeill.
 Lorenzo G. Howe, *'55, *'58, *'60.
 Henry S. Orange, '61.

WARD 3.

George W. Norris, '61.
 Edmund D. Fletcher.
 Everett W. French.
 John Quinn.

WARD 4.

Joseph B. Keyes, 61.
 George Runels.
 John Pettingell.
 Hubbard Willson, '54.

WARD 5.

Rollin C. Downs.
 Albert Mallard, '50, '51.
 Edward Fifield, '51, '52.
 Cleveland J. Cheney.

WARD 6.

George F. Richardson, President.
 Albion J. Dudley.
 Elon A. Sanborn, '61.
 Frederick Frye.

GEORGE GARDNER, Clerk.**1863.****MAYOR:****HOCUM HOSFORD, '60, *'61, † '62.****ALDERMEN:**

James B. Francis, *'49, *'50, *'62.
 Edwin A. Alger, *'58, *'62.
 Abiel Pevey, '56, '57, *'58.
 William A. Burke, *'62.

Isaac F. Scripture, *'62.
 Otis Allen, '43, '48.
 Albert Wheeler, '56, *'58, *'62.
 William Nichols, '57, '58, '60.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Charles F. Hard, '62.
 Amos D. Wright, '62.
 John Cosgrove.
 William A. Wright.

WARD 2.

George F. Sawtell.
 Henry S. Orange, '61, '62.
 Hugh McEvoy.
 Nathaniel Stearns.

WARD 3.

Everett W. French, '62.
 Fordyce Coburn, '50, '51.
 Edmund D. Fletcher, '62.
 John Quinn, 62.

WARD 4.

Atwell F. Wright.
 Josiah Gates.
 William Stafford.
 John McCann.

WARD 5.

James C. Ayer.
 Charles W. Saunders.
 Cyrus H. Latham.
 John E. Downs.

WARD 6.

George F. Richardson, † '62, President.
 Albion J. Dudley, '62.
 Benedict O. Carpenter, '62.
 Frederick Frye, '62.

GEORGE GARDNER, Clerk.

1864.**MAYOR:****HOCUM HOSFORD, '60, *'61, †'62, †'63.****ALDERMEN:**

William S. Southworth.

James B. Francis, *'49, *'50, *'62, *'63.

Dana B. Gove.

William T. McNeill, '62.

George W. Norris, '61, '62.

George Runels, '62.

Cyrus H. Latham, '63.

George F. Richardson, †'62, †'63.

JOHN H. MCALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Alden B. Watson.

Lewis L. Perrin.

Frederick S. Tukey.

John Cosgrove, '63.

WARD 2.

George Ripley, President.

Andrew F. Jewett.

Artemas S. Young.

Hoyt W. Hilton.

WARD 3.

Samuel N. Wood.

Charles W. Dodge.

Joseph S. Pollard.

James G. Morrison, '61.

WARD 4.

Atwell F. Wright, '63.

Daniel Churchill.

William W. Sherman.

Francis Jewett.

WARD 5.

John E. Downs, '63.

Thomas G. Gerrish, resigned June 14.

Charles Hubbard, '57.

Cleveland J. Cheney, '62.

WARD 6.

Levi Sprague, '59.

Tobias L. P. Lamson.

Addison Putnam.

Albion J. Dudley, '62, '63.

GEORGE GARDNER, Clerk.**1865.****MAYOR:****JOSIAH G. PEABODY, *'50, '59, '60.****ALDERMEN:**

Ew'd F. Watson, '40, '41, *'44, *'45, *'60.

George W. Norris, '61, '62, *'64.

Dana B. Gove, *'64.

William T. McNeill, '62, *'64.

Henry H. Wilder, '53, '54, *'60.

Josiah Gates, '63.

Cyrus H. Lathan, '63, *'64.

William Brown, '45, '46.

JOHN H. MCALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Alden B. Watson, '64.

Lewis L. Perrin, '64.

George N. Osgood.

John R. Southwick, '47.

WARD 2.

George Ripley, †'64, President.

Andrew F. Jewett, '64.

Julian V. Keyes.

Chester W. Rugg.

WARD 3.

Joseph S. Pollard, '64.

Charles W. Dodge, '64.

Edward C. Rice.

Frederick T. North.

WARD 4.

Francis Jewett, '64.

Benjamin Walker.

Benjamin L. Googins.

John Pearson.

WARD 5.

Charles Hubbard, '57, '64.

James Kent.

Simeon D. Osterhoudt.

James Foster.

WARD 6.

Tobias L. P. Lamson, '64.

Luke C. Dodge.

Gustavus A. Gerry.

James M. Moore, '55.

GEORGE GARDNER, Clerk.

1866.**MAYOR:****JOSIAH G. PEABODY**, *'50, '59, '60, † '65.**ALDERMEN:**

Samuel A. Brown.

Albert B. Plimpton.

John R. Southwick, '47, '65.

Joseph L. Sargent, '60, '61.

Charles W. Dodge, '64, '65.

Josiah Gates, '63, *'65.

Henry M. Hooke.

Albion J. Dudley, '62, '63, '64.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

William A. Hodge.

William A. Wright, '63.

Jacob Baron, '61.

Rollin C. Downs, '62.

WARD 2.

Andrew F. Jewett, '64, '65.

George H. Whitmore.

Julian V. Keyes, '65.

Chester W. Rugg, '65.

WARD 3.

Edward C. Rice, '65.

Frederick T. North, '65.

James N. Pinkham.

Oliver W. Smith.

WARD 4.

Benjamin L. Googins, '65.

Alfred Scott.

Thomas F. Burgess.

Benjamin Walker, '65.

WARD 5.

Robert H. Butcher.

John T. Lee.

George L. Huntoon.

Jonathan Johnson, '55, *'56, *'57.

WARD 6.

Gustavus A. Gerry, '65, President.

Luke C. Dodge, '65.

Charles A. Kimball.

Alfred H. Chase.

GEORGE GARDNER, Clerk.**1867.****MAYOR:****GEORGE F. RICHARDSON**, † '62, † '63, *'64.**ALDERMEN:**

Charles B. Coburn, '44, '51, *'56.

Hocum Hosford, '60, *'61, † '62, † '63, † '64,

John R. Southwick, '47, '65, *'66.

Joseph L. Sargent, '60, '61, *'66.

Edward C. Rice, '65, '66.

Abner W. Buttrick, '40, '44, '45, '50;
died June 29, '67.

Wm. E. Livingston, elected Sept. 9, '67.

William H. Parker, '61.

Albion J. Dudley, '62, '63, '64, *'66.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

John Shepard.

Calvin Sawtell.

Foster Wilson.

M. Gilbert Perkins, '61.

WARD 2.

Gustavus A. Gerry, '65, † '66, President.

Ruel J. Walker.

William Dobbins.

Silas Tyler, Jr.

WARD 3.

Jona. P. Folsom, '56, *'59, *'61, *'62.

Frederick T. North, '65, '66.

Samuel D. Prescott.

Nathan M. Wright.

WARD 4.

John B. Hunt.

John Q. A. Hubbard.

Alfred Scott, '66.

Thomas F. Burgess, '66.

WARD 5.

George L. Huntoon, '66.

George S. Cheney.

James Foster, '65.

John T. Lee, '66.

WARD 6.

Alfred H. Chase, '66.

James Lawton.

John N. Pierce, Jr.

Foster Nowell, '60, '61, res'd May 14, '67.

William Kittredge, elected Sept. 9, '67.

GEORGE GARDNER, Clerk.

1868.**MAYOR:****GEORGE F. RICHARDSON, ‡ '62, ‡ '63, *'64, † '67.****ALDERMEN:**

Charles B. Coburn, '44, '51, *'56, *'67. Edward C. Rice, '65, '66, *'67.
 Francis Jewett, '64, '65. William E. Livingston, *'67.
 John M. Pevey, resigned in July. Frederic Frye, '62, '63.
 Charles L. Hildreth, elected in September. Albion J. Dudley, '62, '63, '64, *'66, *'67.
 Silas Tyler, Jr., '67.

JOHN H. McALVIN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Calvin Sawtell, '67.
 John Shepard, '67.
 John F. Merrill.
 Frederic T. Greenhalge.

WARD 2.

Francis D. Munn.
 Joseph A. Patten, '55.
 Ruel J. Walker, '67.
 Henry S. Orange, '61, '62, '63.

WARD 3.

George W. Badger.
 Samuel D. Prescott, '67.
 William Walker.
 Albert A. Haggett.

WARD 4.

William H. Anderson.
 John Q. A. Hubbard, '67.
 Charles T. Crane.
 John B. Hunt, '67.

WARD 5.

Edwin Lamson.
 George S. Cheney, '67.
 William Kelley.
 Ethan N. Spencer.

WARD 6.

John N. Pierce, Jr., '67.
 James Lawton, '67.
 Francis Brown.
 Alfred H. Chase, '66, '67, President.

GEORGE GARDNER, Clerk.**1869.****MAYOR:****JONATHAN P. FOLSOM, '56, *'59, *'61, *'62, '67.****ALDERMEN:**

Francis Jewett, '64, '65, *'68. Hapgood Wright, '45, '46, *'56.
 Henry H. Wilder, '53, '54, *'60, '65. John Q. A. Hubbard, '67, '68.
 Charles L. Hildreth, *'68. George S. Cheney, '67, '68.
 Cyrus H. Latham, '63, *'64, *'65. Charles A. Stott, '59, '60.

JOHN H. McALVIN, City Clerk. Resigned March 15, 1869.**SAMUEL A. McPHETRES, City Clerk. Elected March 15, 1869.****COMMON COUNCIL:****WARD 1.**

Frederic T. Greenhalge, '68.
 John H. Durgin, Jr.
 Patrick Keyes.
 Benjamin Patch.

WARD 2.

Joseph A. Patten, '55, '68.
 Phineas Jones.
 Francis D. Munn, '68.
 Amos Sanborn.

WARD 3.

George W. Badger, '68.
 Albert A. Haggett, '68.
 William Walker, '68.
 George E. Pinkham.

WARD 4.

William H. Anderson, '68, President.
 Simeon G. Lyford.
 Henry P. Carter.
 Epaphras A. Hill.

WARD 5.

William Kelley, '68.
 Willard A. Brown.
 William O. Fiske.
 Edwin Lamson, '68.

WARD 6.

Francis Brown, '68.
 Alpha B. Farr, '58.
 Lucian P. Stacy, '55.
 William Kittredge, '67.

GEORGE GARDNER, Clerk.

1870.**MAYOR:****JONATHAN P. FOLSOM, '56, *'59, *'61, *'62, '67, †'69.****ALDERMEN:**

Edward F. Sherman.

Frank F. Battles.

Charles L. Hildreth, *'68, *'69.

Amos B. French.

Hapgood Wright, '45, '46, *'56, *'69.

John Q. A. Hubbard, '67, '68, *'69.

Addison Putnam, '64.

Charles A. Stott, '59, '60, *'69.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John H. Durgin, Jr., '69.

Benjamin Patch, '69.

Patrick Keyes, '69.

Samuel G. Ladd.

WARD 2.

Phineas Jones, '69.

John L. Moulton.

Patrick Cummiskey.

David G. Skillings.

WARD 3.

Albert A. Haggett, '68, '69, President.

Henry P. Perkins, '60, '61.

Hocum Hosford, '60, *'61, †'62, †'63,
†'64, *'67, declined.

Matthew Donovan.

John L. Meadowcroft, elected Jan. 24.

GEORGE GARDNER, Clerk.**1871.****MAYOR:****EDWARD F. SHERMAN, *'70.****ALDERMEN:**

Frank F. Battles, *'70.

William F. Salmon, '58, '59, †'60.

John W. Smith, '49, '50.

Amos B. French, *'70.

Albert A. Haggett, '68, '69, †'70.

Henry C. Howe, '53, '54.

Frederick Ayer.

Addison Putnam, '64, *'70.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John H. Durgin, Jr., '69, '70.

Samuel G. Ladd, '70.

Francis N. J. Haviland.

Joel Knapp.

WARD 2.

William Dobbins, '67.

John L. Moulton, '70.

Patrick Cummiskey, '70.

Amos A. Blanchard.

WARD 3.

Henry P. Perkins, '60, '61, '70, President.

John L. Meadowcroft, '70.

Horace Ela.

Julius C. Jockow.

WARD 4.

Benjamin Walker, '65, '66.

Michael Corbett, '70.

Francis H. Chandler.

Charles T. Goddard.

WARD 5.

Jeremiah Crowley, '70.

Crawford Burnham.

Henry C. Church.

Patrick Lynch.

WARD 6.

Leonard Brown, '53, '54, '58, '59.

John Stott, '70.

Abel T. Atherton.

Nathaniel C. Sanborn.

GEORGE GARDNER, Clerk.

1872.**MAYOR:****JOSIAH G. PEABODY**, *'50, '59, '60, †'65, †'66.**ALDERMEN:**

Henry C. Howe, '53, '54, *'71.

Alexander G. Cumnock.

Benjamin Patch, '69, '70.

Gustavus A. Gerry, '65, †'66, †'67.

Frederick T. North, '65, '66, '67.

Benjamin Walker, '65, '66, '71.

William Kelley, '68, '69.

Alpha B. Farr, '58, '69, '70.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John E. Webb, '58, '59.

Alonzo F. Caswell.

Southwell Farrington.

True P. Jordan.

WARD 2.

Leonard Brown, '53, '54, '58, '59, '71.

Amos A. Blanchard, '71.

Joseph S. Brown.

Earl A. Thissell.

WARD 3.

Henry P. Perkins, '60, '61, '70, †'71, Pres.

Horace Ela, '71.

Julius C. Jockow, '71.

Charles F. Tilton.

WARD 4.

Nathaniel P. Favor.

Nathan W. Frye.

Henry A. Lord.

Alonzo L. Russell.

WARD 5.

Crawford Burnham, '71.

Charles F. Belden.

Luther J. Eames.

William Shepard.

WARD 6.

Abel T. Atherton, '71.

Nathaniel C. Sanborn, '71.

Samuel M. Chase.

Julian Talbot.

GEORGE GARDNER, Clerk.**1873.****MAYOR:****FRANCIS JEWETT**, '64, '65, *'68, *'69.**ALDERMEN:**

Jonathan P. Folsom, '56, *'59, *'61, *'62, '67, †'69, †'70.

George Runels, '62, *'64.

Edward Tuck, *'56, '58, *'59, declined.

Isaac Farrington, '46, '47, declined.

William Dobbins, '67, '71, elected Jan. 14.

Charles A. F. Swan, elected January 14.

Jacob H. Sawyer.

Jeremiah Crowley, '70, '71.

Alpha B. Farr, '58, '69, '70, *'72.

George Stevens.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John E. Webb, '58, '59, '72.

Alonzo F. Caswell, '72.

Frank Brady.

Stephen J. Smiley.

WARD 2.

Joseph S. Brown, '72.

Earl A. Thissell, '72.

Daniel Stickney.

Edward P. Woods.

WARD 3.

Albert A. Haggett, '68, '69, †'70, *'71, Pres.

Charles F. Tilton, '72, resigned March 1.

William Bass.

James Owens.

James A. Loughlin, elected April 8.

WARD 4.

Atwell F. Wright, '63, '64.

Nathaniel P. Favor, '72.

Nathan W. Frye, '72.

Henry A. Lord, '72.

WARD 5.

Robert H. Butcher, '66.

Charles F. Belden, '72.

Jared P. Maxfield.

George Smith.

WARD 6.

Nathaniel C. Sanborn, '71, '72.

Samuel M. Chase, '72.

George W. S. Hurd.

Artemas S. Tyler.

GEORGE GARDNER, Clerk.

1874.**MAYOR:****FRANCIS JEWETT, '64, '65, *'68, *'69, †'73.****ALDERMEN:**

Jeremiah Crowley, '70, '71, *'73.

Benjamin Walker, '65, '66, '71, *'72.

Alonzo F. Caswell, '72, '73.

Joseph S. Brown, '72, '73.

Jonathan Kendall, '42, '44, '52.

George L. Huntoon, '66, '67.

Nathaniel C. Sanborn, '71, '72, '73.

George Stevens, *'73.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Charles A. Welch, '57.

Frank Brady, '73.

Stephen J. Smiley, '73.

Charles H. Harvey.

WARD 2.

Daniel Stickney, '73.

Edward P. Woods, '73.

Charles J. Eastman.

Edward E. Reed.

WARD 3.

Julius C. Jockow, '71, '72.

James Owens, '73.

James A. Loughlin, '73.

George W. Tilton.

WARD 4.

Charles T. Goddard, '71.

Nathan W. Frye, '72, '73, President.

Jacob H. Sawyer, *'73.

Julian A. Richardson.

WARD 5.

Jared P. Maxfield, '73.

John B. Lyford,

Samuel P. Marin.

John Scott.

WARD 6.

George W. S. Hurd, '73.

Joel A. Abbott.

Thomas Carolin.

Jason Fuller.

GEORGE GARDNER, Clerk, died May 29.**DAVID CHASE, Clerk, elected June 4.****1875.****MAYOR:****FRANCIS JEWETT, '64, '65, *'68, *'69, †'73, †'74.****ALDERMEN:**

Benjamin Walker, '65, '66, '71, *'72, *'74.

Jacob Rogers.

John A. Goodwin.

Joseph S. Brown, '72, '73, *'74.

Hapgood Wright, '45, '46, *'56, *'69.

James Owens, '73, '74.

Alden B. Richardson.

Samuel A. Chase.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Charles A. Welch, '57, '74.

Charles H. Harvey, '74.

John F. Howard.

John W. Welch.

WARD 2.

Earl A. Thissell, '72, '73.

Edward E. Reed, '74.

William A. Read.

Leavitt R. J. Varnum.

WARD 3.

Albert A. Haggett, '68, '69, †'70, *'71.

George W. Tilton, '74. [†'73, Pres.

Charles Cowley.

Thomas R. Garity.

WARD 4.

Josiah Butler.

Francis Carll.

Edward P. Dennis.

Edward Stockman.

WARD 5.

James D. Hartwell, '70.

John B. Lyford, '74.

Orford R. Blood.

Charles W. Sleeper.

WARD 6.

Joel A. Abbott, '74.

Thomas Carolin, '74.

Jason Fuller, '74.

Albert D. Wright.

DAVID CHASE, Clerk.

1876.**MAYOR:****CHARLES A. STOTT, '59, '60, * '69, * '70.****ALDERMEN:**

Jacob Rogers, *'75. Henry A. Hildreth.
 John A. Goodwin, *'75. [† '73, † '75. George E. Stanley.
 Albert A. Haggett, '68, '69, † '70, *'71, Francis Carll, '75.
 Charles F. Belden, '72, '73. William H. Wiggin, '57.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John W. Welch, '75.
 Lewis Stiles.
 Daniel W. Manning.
 David M. Collins, '56, declined.
 John F. Howard, '75, elected January 11.

WARD 2.

Leavitt R. J. Varnum, '75.
 Charles E. Hallowell.
 Charles Callahan.
 William A. Read, '75.

WARD 3.

Charles Cowley, '75.
 Charles H. Kimball.
 Charles Runels.
 James Howard, died after election.
 William H. Grady, elected January 11.

WARD 4.

Edward Stockman, '75, resigned May 23.
 Gardner W. King.
 Stephen H. Jones.
 Charles D. Starbird.
 James W. Bennett, elected June 22.

WARD 5.

Orford R. Blood '75.
 John F. Kimball, President from May 23.
 Charles H. Hanson.
 M. Gilbert Perkins, '61, '67.

WARD 6.

Edwin Sanborn.
 Benjamin C. Dean, Pres., resig'd May 23.
 Charles H. Walker.
 John J. Pickman.
 Willis Farrington, elected June 22.

DAVID CHASE, Clerk.**1877.****MAYOR:****CHARLES A. STOTT, '59, '60, * '69, * '70, † '76.****ALDERMEN:**

Jeremiah Crowley, '70, '71, *'73, *'74. Orford R. Blood, '75, '76, seat vacated.
 Horace R. Barker. Stephen B. Puffer, declined el. January 23.
 George E. Stanley, *'76. Robert Park.
 Charles H. Kimball '76. George E. Pinkham, '69.
 George P. Walker.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Daniel W. Manning, '76.
 Lewis Stiles, '76.
 John Courtney.
 Frank Brady, '73, '74, resig'd March 27.
 Jared P. Maxfield, '73, '74, elected May 8.

WARD 2.

Charles E. Hallowell, '76.
 Francis D. Munn, '68, '69.
 Charles H. Robbins.
 Oliver M. Harding.

WARD 3.

William H. Grady, '76.
 Patrick Lynch.
 Simon Kelly.
 George E. Davis.

WARD 4.

Gardner W. King, '76.
 James W. Bennett, '76.
 Irving K. Goodale.
 Orlando Blodgett.

WARD 5.

John F. Kimball, † '76.
 Charles H. Hanson '76.
 Peter S. Coburn.
 Robert Goulding.

WARD 6.

Edwin Sanborn, '76.
 John J. Pickman, '76.
 Charles H. Walker, '76.
 Augustus E. Spaulding, dec. January 10
 George S. Cushing, elected February 6.

DAVID CHASE, Clerk.

1878.**MAYOR:****JOHN A. G. RICHARDSON.****ALDERMEN:**

Stephen B. Puffer, *'77.
 Robert Park, *'77.
 Horace R. Barker, *'77.
 George F. Scribner, '57.

George E. Scripture.
 Joseph S. Pollard, '64, '65, [*'77.
 Jeremiah Crowley, '70, '71, *'73, *'74,
 Nathaniel C. Sanborn, '71, '72, '73, *'74.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

John Courtney, '77.
 John J. Mealey.
 Joseph M. Ambrose.
 Charles H. Harvey, '74, '75.

WARD 2.

Oramel A. Brigham.
 Edward M. Tucke.
 William W. Clark.
 Albert W. Monty.

WARD 3.

Simon Kelly, '77.
 Edward Cawley.
 Henry P. Morris.
 Samuel D. Butterworth.

WARD 4.

Irving K. Goodale, '77.
 Orlando Blodgett, '77.
 Robert G. Bartlett.
 Stephen H. Jones, '76.

WARD 5.

Robert Goulding, '77.
 Peter S. Coburn, '77.
 John F. Kimhall, †'76, †'77, President.
 Enos O. Kingsley, '56.

WARD 6.

George S. Cushing, '77.
 Eli W. Hoyt.
 Luke B. Taylor.
 Miles F. Brennan, to January 22.
 Thomas Nesmith, from January 22.

DAVID CHASE, Clerk.**1879.****MAYOR:****JOHN A. G. RICHARDSON, †'78.****ALDERMEN:**

Horace R. Barker, *'77, *'78.
 Charles A. R. Dimon.
 Joseph S. Pollard, '64, '65, *'78.
 Charles S. Lilley.

George E. Scripture, *'78.
 George F. Scribner, '57, *'78.
 Charles F. Howe.
 Robert Goulding, '77, '78.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Joseph M. Ambrose, '78.
 John O'Donnell.
 James Kelly.
 Richard J. Noonan.

WARD 2.

Albert W. Monty, '78.
 Charles H. Richardson.
 William K. Chase, resigned November 25.
 Edwin A. Robinson.
 Edward M. Tucke, '78, elected Dec. 9.

WARD 3.

Edward Cawley, '78.
 Henry P. Morris, '78.
 William T. Benson.
 Patrick A. Rogers.

WARD 4.

Robert G. Bartlett, '78.
 Fred Woodies.
 Charles F. Varnum.
 Charles E. Farrington.

WARD 5.

Albert W. Burnham.
 Ambrose L. Ready.
 Joseph M. Wilson.
 Edward B. Peirce, President.

WARD 6.

Eli W. Hoyt, '78.
 Luke B. Taylor, '78.
 Major A. Shaw.
 Miles F. Brennan, '78.

DAVID CHASE, Clerk.

1880.**MAYOR:****FREDERIC T. GREENHALGE, '68, '69.****ALDERMEN:**

James D. Hartwell, '70, '75.
 Atwill F. Wright, '63, '64.
 Charles H. Richardson.
 Edwin Lamson, '68, '69.

Isaac F. Scripture, *'62, *'63.
 Robert Wood.
 Charles H. Coburn.
 James C. Abbott.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

James Kelly, '79.
 Richard J. Noonan, '79.
 Thomas J. Flynn.
 Lawrence Cummings.

WARD 2.

Edwin A. Robinson, '79.
 Wilbur L. Bates.
 Samuel W. Foster.
 Earl A. Thissell, '72, '73, '75, President.

WARD 3.

Peter H. Donohoe.
 William T. Benson, '79.
 Patrick A. Rogers, '79.
 Frank Wood.

WARD 4.

Fred Woodies, '79.
 Charles F. Varnum, '79.
 Charles E. Farrington, '79.
 Charles D. Starbird, '76.

WARD 5.

Joseph M. Wilson, '79.
 Ambrose L. Ready, '79.
 Samuel Hosmer.
 Edward B. Peirce, ‡ '79.

WARD 6.

Benjamin F. Freeman.
 J. Tyler Stevens.
 Charles C. Hutchinson.
 Henry C. Cooper.

DAVID CHASE, Clerk.**1881.****MAYOR:****FREDERIC T. GREENHALGE, '68, '69, † '80.****ALDERMEN:**

Charles H. Richardson, *'80.
 Isaac F. Scripture, *'62, *'63, *'80.
 Robert Wood, *'80.
 Ambrose L. Ready, '79, '80.

Levi Sprague, '59, '64.
 Julius A. Stiles.
 Samuel D. Butterworth, '78.
 Thomas R. Garity, '75.

SAMUEL A. McPHETRES, City Clerk.**COMMON COUNCIL:****WARD 1.**

Thomas J. Flynn, '80.
 Lawrence Cummings, '80.
 Robert J. Thomas.
 Jeremiah J. Hayes.

WARD 2.

Zachariah D. Hall.
 James M. Howe, '57, '59.
 Hubert M. Potter.
 Moses Gibson.

WARD 3.

Frank Wood, '80.
 Peter H. Donohoe, '80.
 John E. Maguire.
 D. Moody Prescott.

WARD 4.

Julius C. Johnson.
 Stephen C. Davis.
 Edward Garner.
 William N. Osgood.

WARD 5.

Atkinson C. Varnum.
 Samuel Hosmer, '80.
 Samuel P. Marin, '74.
 Albert W. Burnham, '79.

WARD 6.

Charles C. Hutchinson, '80.
 Albert G. Thompson.
 Thomas Nesmith, '78.
 Lawrence J. Smith.

DAVID CHASE, Clerk.

1882.**MAYOR:****GEORGE RUNELS, '62, *'64.****ALDERMEN:**

Thomas R. Garity, '75, *'81, Chairman.	D. Moody Prescott, '81.
* Charles W. Sleeper.	George S. Cushing, '77, '78.
George B. Smith.	John F. Phillips.
William A. Wright, '63, '66.	† John Welch.
David Whitaker.	

‡ SAMUEL A. MCPHETRES, City Clerk. § DAVID W. O'BRIEN, City Clerk.

* Resigned, May 23; special election to fill vacancy, June 20.

† Elected June 20, to fill vacancy. ‡ Died Sept. 29, 1882 § Elected Oct. 4, 1882.

COMMON COUNCIL:**WARD 1.**

Robert J. Thomas, '81.
Jeremiah J. Hayes, '81.
Dennis J. Crowley.
John A. Walsh.

WARD 2.

Zachariah D. Hall, '81.
James M. Howe, '57, '59, '81.
Moses Gibson, '81.
James F. Puffer, Jr.

WARD 3.

Frank Wood, '80, '81.
John E. Maguire, '81.
John J. Mead.
James Grady.

WARD 4.

Julius C. Johnson, '81.
Stephen C. Davis, '81.
Edward Garner.
William N. Osgood, '81, President.

WARD 5.

Atkinson C. Varnum, '81.
Albert W. Burnham, '79, '81.
Artemas B. Woodworth.
Horace B. Barnes.

WARD 6.

Albert G. Thompson, '81.
Lawrence J. Smith, '81.
Thaddeus S. Cobb.
Miles J. Fletcher.

DAVID CHASE, Clerk.

1883.**MAYOR:****JOHN J. DONOVAN.****ALDERMEN:**

John F. Phillips, *'82, Chairman.	D. Moody Prescott, '81, *'82.
George B. Smith, *'82.	George W. Fifield.
Robert J. Thomas, '81, '82.	John Welch, *'82.
David Whitaker, *'82.	Miles J. Fletcher, '82.

DAVID W. O'BRIEN, City Clerk.

COMMON COUNCIL:**WARD 1.**

Dennis J. Crowley, '82.
John J. Hogan.
James H. Cahill.
Daniel Murphy.

WARD 2.

Samuel Lawrence, '50.
Joseph S. Brown, '72, '73, *'74, *'75.
Albert W. Monty, '78, '79.
John F. Thissell.

WARD 3.

James Grady, '82.
John J. Mead, '82.
Patrick J. Smith.
Frank J. Donohue.

WARD 4.

James G. Elliott.
Solomon K. Dexter.
Alonzo L. Russell, '72.
Geo. A. Bennett.

WARD 5.

Edward B. Pierce, ‡ '79, '80.
Artemas B. Woodworth, '82.
John P. Mahoney.
George L. Ashworth.

WARD 6.

Lawrence J. Smith, '81, '82.
Thaddeus S. Cobb, '82.
J. Frank Page.
Michael F. Clark.

DAVID CHASE, Clerk.

1884.**MAYOR:****JOHN J. DONOVAN, † '83.****ALDERMEN:**

Robert J. Thomas, '81, '82, *'83, Chair'n.	Jeremiah Crowley, '70, '71, *'73, *'74, *'77, *'78.
Miles J. Fletcher, '82, *'83.	Peter H. Donohoe, '80, '81.
George W. Fifield, '83.	Freeman B. Shedd.
Thaddeus S. Cobb, '82, '83.	
Edward B. Quinn.	

DAVID W. O'BRIEN, City Clerk.**COMMON COUNCIL:****WARD 1.**

John J. Hogan, '83, President.
 James H. Cahill, '83.
 Daniel Murphy, '83.
 James H. Morrison.

WARD 2.

Joseph S. Brown, '72, '73, *'74, *'75, '83.
 Albert W. Monty, '78, '79, '83.
 Earl A. Thissell, '72, '73, '75, † '80.
 John R. Pike.

WARD 3.

Patrick J. Smith, '83.
 Peter J. Brady.
 Thomas J. Sparks.
 John Nolan.

WARD 4.

James G. Elliott, '83.
 Solomon K. Dexter, '83.
 Alonzo L. Russell, '72, '83.
 George A. Bennett, '83.

WARD 5.

Edward B. Peirce, † '79, '80, † '83.
 George L. Ashworth,
 Joseph M. Wilson, '79, '80.
 James S. Hanson.

WARD 6.

J. Frank Page, '83.
 Michael F. Clark, '83.
 Alfred M. Chadwick.
 Marcellus H. Fletcher.

DAVID CHASE, Clerk.**1885.****MAYOR:****EDWARD J. NOYES.****ALDERMEN:**

John F. Phillips, *'82, *'83, Chairman.	James D. Hartwell, '70, '75, *'80.
John F. Howe, '57, '58, *'59.	George F. Penniman.
William D. Brown.	Oliver E. Cushing.
George E. Stanley, *'76, *'77.	James Francis.

SAMUEL M. CHASE, City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick H. Plunkett.
 James H. Morrison, '84.
 Thomas J. Enright.
 Henry F. Keyes.

WARD 2.

George W. Brothers.
 Walter M. Sawyer.
 James R. Fulton.
 Francis D. Munn, Jr.

WARD 3.

Peter J. Brady, '84.
 Patrick J. Smith, '83, '84.
 John Nolan, '84.
 Thomas J. Sparks, '84.

WARD 4.

Arnold S. Welch.
 George A. Roper.
 William A. Lang.
 Frank W. Howe.

WARD 5.

Wilson W. Carey.
 James S. Hanson, '84.
 Henry L. Newhall.
 Elwyn W. Lovejoy.

WARD 6.

Alfred M. Chadwick, '84, President.
 George R. Richardson.
 Luke B. Taylor, '78, '79.
 William H. White.

DAVID CHASE, Clerk.

1886.**MAYOR:****JAMES C. ABBOTT.****ALDERMEN:**

Jeremiah Crowley, '70, '71, *'73, *'74, Daniel Wright.
 *'77, *'78, *'84, Chairman. Samuel D. Butterworth, *'78, *'81.
 John F. Phillips, *'82, *'83, *'85. George F. Penniman, *'85.
 Stephen B. Puffer, *'77, *'78. James Francis, *'85.
 George E. Stanley, *'76, *'77, *'85.

SAMUEL M. CHASE, City Clerk.**COMMON COUNCIL:****WARD 1.**

Peter B. Sherlock.
 Patrick H. Plunkett, '85.
 Thomas J. Enright, '85.
 Timothy H. Brennan.

WARD 2.

Walter M. Sawyer, '85, President.
 Charles H. Richardson, '79.
 James R. Fulton, '85.
 Francis D. Munn, Jr., '85.

WARD 3.

Daniel Cleary.
 Patrick J. Mahan.
 Edward D. McVey.
 Thomas J. Sparks, '84, '85.

WARD 4.

Arnold S. Welch, '85.
 George A. Roper, '85.
 Frank W. Howe, '85.
 William A. Lang, '85.

WARD 5.

Henry L. Newhall, '85.
 Elwyn W. Lovejoy, '85.
 Wilson W. Carey, '85.
 Roswell M. Boutwell, '85.

WARD 6.

Lawrence J. Smith, '81, '82, '83.
 John E. Drury.
 Charles H. Hobson.
 Marcellus H. Fletcher, '84.

DAVID CHASE, Clerk.**1887.****MAYOR:****JAMES C. ABBOTT, † '86.****ALDERMEN:**

Stephen B. Puffer, *'77, *'78, *'86, Chai'n. Peter H. Donohoe, '80, 81, *'84.
 Nathan D. Pratt. Miles J. Fletcher, '82, *'83, *'84.
 Francis C. Plunkett. Frederick Frye, '62, '63, *'68.
 August Fels. Marcellus H. Fletcher, '84, '86.

DAVID W. O'BRIEN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Michael J. Garvey.
 Dennis A. Sullivan.
 Daniel Murphy, '83, '84.
 Dennis J. Leary.

WARD 2.

Walter M. Sawyer, † '86.
 Charles H. Richardson, '79, '86.
 George C. Evans.
 Horace P. Beals.

WARD 3.

George B. McKenna.
 John Nolan, '84, '85.
 Daniel Cleary, '86.
 Patrick J. Smith, '83, '84, '85.

WARD 4.

Millard F. Wright.
 Edmund B. Conant.
 Jesse H. Shepard.
 Richard Dobbins.

WARD 5.

Roswell M. Boutwell, '86.
 George W. Brothers, '85.
 Clarence G. Coburn.
 James H. Carmichael, President.

WARD 6.

Richard B. Allen.
 John E. Drury, '86.
 Patrick Conlon.
 Edward Gallagher.

WILLIAM J. COUGHLIN, Clerk.

1888.**MAYOR:****CHARLES D. PALMER.****ALDERMEN:**

George A. Scribner.
 George E. Putnam.
 Charles Runels, '76.
 Charles E. Carter.
 Edward D. Holden.

Arthur Staples.
 Roswell M. Boutwell, '86, '87.
 Alfred M. Chadwick, '84, †'85, Chairm'n.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Dennis A. Sullivan, '87.
 Dennis J. Leary, '87.
 Daniel Murphy, '83, '84, '87.
 Michael J. Garvey, '87.

WARD 2.

Frank J. Sherwood.
 Horace P. Beals, '87.
 Harry E. Shaw.
 Pierre A. Brousseau.

WARD 3.

John F. Rogers.
 Owen M. Donohoe.
 Thomas J. Sparks, '84, '85, '86.
 *John F. Roane.

†Patrick H. Brosnahan.

*Resigned Aug. 9. Special Election to fill vacancy Sept. 18.

†Elected Sept. 18 to fill vacancy.

DAVID CHASE, Clerk**WARD 4.**

*Millard F. Wright, '87.
 Edmund B. Conant, '87, President.
 Jesse H. Shepard, '87.
 Richard Dobbins, '87.
 †Alonzo G. Walsh.

*Resigned April 24. Special Election to fill vacancy June 5.

†Elected June 5 to fill vacancy.

WARD 5.

Charles C. Hartwell.
 Clarence G. Coburn, '87.
 George W. Brothers, '85.
 Joseph S. Lapierre.

WARD 6.

William E. Westall.
 Frank Brown.
 Richard B. Allen, '87.
 Abbott Lawrence.

1889.**MAYOR:****CHARLES D. PALMER, †'88.****ALDERMEN:**

George A. Scribner, *'88.
 Walter M. Sawyer, '85, †'86, '87.
 George E. Putnam, *'88.
 Edward D. Holden.

Roswell M. Boutwell, '86, '87, *'88, Ch'n.
 John H. Fuller.
 William F. Senter.
 John E. Drury, '86, '87.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick J. Savage.
 Joseph H. Callahan.
 Daniel H. Courtney.
 William J. Johnson.

WARD 2.

*Samuel C. George.
 Pierre A. Brousseau, '88.
 Arthur H. Cluer.
 Frank J. Sherwood, '88.

†James Stuart Murphy.

*Res'd June 9. †Ele. July 2, to fill vacancy.

WARD 3.

Owen M. Donohoe, '88.
 Stephen Garrity.
 Patrick H. Brosnahan, '88.
 Thomas J. Sparks, '84, '85, '86, '88.

DAVID CHASE, Clerk.**WARD 4.**

B. Frank Hale.
 Edwards Cheney.
 Alonzo G. Walsh, '88.
 Frank Gray.

WARD 5.

Orford R. Blood, '75, '76.
 Charles C. Hartwell, '88.
 Henry W. Ladd.
 Henry J. Draper.

WARD 6.

William E. Westall, '88, President.
 Abbott Lawrence, '88.
 Albert Crowell.
 Frank Brown, '88.

1890.**MAYOR:****CHARLES D. PALMER,** '88, † '89.**ALDERMEN:**

Albert D. Carter.

Watson A. Dickinson.

John E. Drury, '86, '87, *'89.

Edmund D. Fletcher.

John H. Fuller, *'89, Chairman.

Walter M. Sawyer, '85, † '86, '87, *'89.

Samuel E. Snow.

Joseph M. Wilson, '79, '80, '84.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Joseph H. Callahan, '89.

Daniel H. Courtney, '89.

William J. Johnson, '89.

Patrick J. Savage, '89.

WARD 2.

Newell Abare.

Arthur H. Cluer, '89.

Walter C. Coburn.

James Stuart Murphy, '89.

WARD 3.

Patrick H. Brosnahan, '88, '89.

Robert C. Gallagher.

Charles L. Marren.

Thomas J. Sparks, '84, '85, '86, '88, '89.

WARD 4.

Edwards Cheney, '89.

Frank Gray, '89.

B. Frank Hale, '89.

Alonzo G. Walsh, '88, '89, President.

WARD 5.

Orford R. Blood, '75, '76, '89.

Herbert M. Jacobs.

Henry W. Ladd, '89.

Louis P. Turcotte.

WARD 6.

Albert Crowell, '89.

Daniel D. Driscoll.

James Gookin.

Edward F. Spalding.

DAVID CHASE Clerk.**1891.****MAYOR:****GEORGE W. FIFIELD,** *'83, *'84.**ALDERMEN:**

Richard B. Allen, '86, '87.

James W. Cassidy.

Jeremiah Crowley, '70, '71, *'73, *'74, *'77,
*'78, *'84, *'86, Chairman.

Watson A. Dickinson, *'90.

Thomas J. Enright, '85, '86.

George H. Frye.

Stephen B. Puffer, *'77, *'78, *'86, *'87.

George F. Tilton.

MICHAEL J. DOWD, City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick H. Barry.

James F. Doherty.

John J. Sullivan.

Peter F. Garrity.

WARD 2.

Newell Abare, '90.

Adolphe Benard.

Walter C. Coburn, '90.

George H. Marston.

WARD 3.

Patrick J. Baxter.

John J. Gilbride.

Charles H. Marren, '90.

Thomas J. Sparks, '84, '85, '86, '88, '89,
'90, President.**WARD 4.**

Edwin L. Giles.

Fred Horne.

Wallace G. Parkin.

Eugene C. Wallace.

WARD 5.

Herbet M. Jacobs, '90.

George D. Kimball.

John A. Speirs.

Louis P. Turcotte, '90.

WARD 6.

James A. Cawley.

James J. Dolan.

Daniel D. Driscoll, '90.

James Gookin, '90.

DAVID CHASE, Clerk

1892.**MAYOR:****GEORGE W. FIFIELD, *'83, *'84, † '91.****ALDERMEN:**

Samuel D. Butterworth, *'78, *'81, *'86. Stephen J. Johnson.
 James W. Cassidy, *'91. Freeman W. Puffer.
 William J. Coughlin. Frank E. Stowell.
 Albert A. Haggett, '68, '69, † '70, *'71, Charles F. Varnum, '79, '80.
 *'76, Chairman.

MICHAEL J. DOWD, City Clerk.**COMMON COUNCIL****WARD 1.**

John Brunette.
 James O'Neill,
 Joseph O'Rourke.
 John J. Sullivan, '91.

WARD 2.

Adolphe Benard, '91.
 George H. Marston, '91.
 Frank Scott.
 Hugh A. Thompson.

WARD 3.

Patrick J. Baxter, '91.
 John J. Gilbride, '91.
 Thomas J. Sparks, '84, '85, '86, '88, '89,
 '90, † '91, President.
 William H. Stafford.

WARD 4.

Edwin L. Giles, '91.
 Fred Horne, '91.
 Wallace G. Parkin, '91.
 Moses Wyman.

WARD 5.

Constant Henotte.
 Patrick H. Kehoe.
 Joseph A. McDonald.
 Charles W. Swan.

WARD 6.

William T. Benson, '79, '80.
 James J. Dolan, '91.
 Thomas F. Hoban.
 Michael F. McCarthy.

DAVID CHASE, Clerk.**1893.****MAYOR:****JOHN J. PICKMAN, '76, '77.****ALDERMEN:**

George R. Choate. Freeman W. Puffer, *'92.
 George C. Evans, '87. Stephen B. Puffer, *'77, *'78, *'86, *'87,
 Stephen J. Johnson, *'92. *'91.
 Elwyn W. Lovejoy, '85, '86. William E. Westall, '88, † '89, Chairman.
 Joseph A. McDonald, '92.

MICHAEL J. DOWD, City Clerk.**COMMON COUNCIL:****WARD 1.**

John Brunette, '92.
 Patrick J. O'Brien.
 James O'Neil, '92.
 Fred H. Rourke.

WARD 2.

Charles H. Boisvert.
 Frank Scott, '92.
 Hugh A. Thompson, '92.
 George H. Tryder.

WARD 3.

Frank Dunlap.
 John J. Grady.
 John Joseph O'Connor.
 William H. Stafford, '92.

WARD 4.

George E. Barclay.
 William J. Hills.
 Charles T. Killpartrick.
 Moses Wyman, '92.

WARD 5.

Cyrille Constantineau.
 Patrick J. Custy.
 Charles H. Noble.
 James O'Sullivan.

WARD 6.

William T. Benson, '79, '80, '92, Pres.
 James J. Dolan, '91, '92.
 Thomas F. Hoban, '92.
 Anthony Robinson.

FRANK J. SIMONDS, Clerk.

1894.**MAYOR:****JOHN J. PICKMAN, '76, '77, †'93.****ALDERMEN:**

Charles N. Bagley.
 Watson A. Dickinson, *'90, *'91.
 Frank Dunlap, '93.
 Coolidge R. Johnson.
 Stephen J. Johnson, *'92, *'93.

Elwyn W. Lovejoy, '85, '86, *'93, Chair-
 man.
 George E. Stanley, *'76, *'77, *'85, *'86.
 William E. Westall, '88, †'89, *'93.

MICHAEL J. DOWD, City Clerk.**COMMON COUNCIL:****WARD 1.**

Matthew M. Mansfield.
 Patrick J. O'Brien, '93.
 Fred H. Rourke, '93.
 John J. Ryan.

WARD 2.

J. Henry Collins.
 John G. Gordon.
 Fred W. Sanborn.
 George H. Tryder, '93.

WARD 3.

Joseph H. Gormley.
 John J. O'Connell.
 John Joseph O'Connor, '93.
 Thomas J. Sparks, '84, '85, '86, '88, '89,
 '90, †'91, †'92, President.

WARD 4.

George E. Barclay, '93.
 William L. Hills, '93.
 Charles T. Killpartrick, '93.
 Luther F. Kittredge.

WARD 5.

Patrick J. Costy, '93.
 Frederick E. Labarge.
 Charles H. Noble, '93.
 John Oliver.

WARD 6.

William T. Benson, '79, '80, '92, †'93,
 Died May 21, 1894.
 William F. Curtin.
 Charles Riley.
 Anthony Robinson, '93.
 Thomas O'Day, Elected July 17, '94.

FRANK J. SIMONDS, Clerk.**1895.****MAYOR:****WILLIAM F. COURTNEY.****ALDERMEN:**

Frank B. Dow.
 Frederic J. Flemings.
 William L. Hills, '93, '94.
 Charles E. Howe.

George H. Tryder, '93, '94.
 Daniel H. Varnum, Chairman.
 John C. Wilson.
 Moses Wyman, '92, '93.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Patrick H. Barry, '91.
 Thomas F. Garvey.
 Hugh Maguire, Jr.,
 Matthew M. Mansfield.

WARD 2.

Edwin S. Eastman.
 William Hounsell.
 Willis E. Morse.
 Fred W. Sanborn, '94.

WARD 3.

Patrick F. Delehanty.
 Joseph H. Gormley, '94.
 James F. Miskella.
 Timothy J. Reynolds.

WARD 4.

David Dickson.
 Edward T. Goward.
 Jonathan G. Hunton.
 Herbert E. Webster.

WARD 5.

Eugene E. Dennison.
 George W. Hartwell.
 John Oliver.
 Francis P. Rivet.

WARD 6.

William F. Curtin, '94, President.
 Thomas O'Day, '94.
 Charles Riley, '94.
 John E. Sullivan.

FRANK J. SIMONDS, Clerk.

1896.**MAYOR:****WILLIAM F. COURTNEY, †'95.****ALDERMEN:**

Jeremiah Crowley, '70, '71, *'73, *'74, *'77, *'78, *'84, *'86, Chairman.	John H. McAlvin.
Frank B. Dow, *'95.	James A. Pevey.
Frederic J. Flemings, *'95.	George H. Tryder, '93, '94, *'95.
Charles E. Howe, *'95.	Edward M. Tucke.
	John C. Wilson, *'95.

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

William Hounsell, '95, ward 2.
Jonathan G. Hunton, '95, ward 4.
Homer B. Nay.

WARD 2.

William J. Dunn.
Hugh Maguire, Jr., '95, ward 1.
Dennis J. Pendergast.

WARD 3.

David Dickson, '95, ward 4.
Frank H. Hallett.
Herbert M. Jacobs, '90, '91, ward 5.

WARD 4.

James F. Miskella, '95, ward 3.
Stephen O'Hare.
Timothy J. Reynolds, '95, ward 3.

WARD 5.

John P. O'Hare.
John E. Sullivan, '95, ward 6.
Charles E. Thornton.

WARD 6.

William E. Badger.
Sidney Drewett.
Edwin S. Eastman.

WARD 7.

George W. Hartwell, '95, ward 5.
Francis P. Rivet, '95, ward 5.
Lorenzo E. Smith.

WARD 8.

Fred A. George.
William H. Penn.
Herbert E. Webster, '95, ward 4, **Pres't.**

WARD 9.

Charles A. Eveleth. Henry K. White.
Carl G. A. F. W. E. Pihl.

FRANK N. OWEN, Clerk.**1897.****MAYOR:****WILLIAM F. COURTNEY, †'95, †'96.****ALDERMEN:**

Charles H. Cosgrove.	Charles E. Howe, *'95, *'96, Chairman.
Lucius A. Derby.	Abbott Lawrence, '88, '89.
Edwin S. Eastman, '95, '96.	Edward B. Pierce, †'79, '80, †'83, '84.
Edward T. Goward, '95.	Fred A. Tuttle.
George L. Hooper.	

GIRARD P. DADMAN, City Clerk.**COMMON COUNCIL:****WARD 1.**

Anadore B. Bosca.
Clarence W. Dana.
Samuel Scott.

WARD 2.

William J. Dunn, '96.
James Kennedy.
Dennis J. Pendergast, '96.

WARD 3.

William H. Brown.
James Smith.
Oliver D. Wilder.

WARD 4.

Francis M. Fagan.
James F. Miskella, '95, '96.
Stephen O'Hare, '96.

WARD 5.

George Farley.
Michael E. Sullivan.
Charles E. Thornton, '96.

WARD 6.

John H. Beaulieu.
Walter F. Leighton.
George H. Taylor.

WARD 7.

Clovis Belanger.
Lorenzo E. Smith, '96.
Lincoln R. Welch.

WARD 8.

Arthur W. Lang.
Charles F. Libby.
William H. Penn, '96, President.

WARD 9.

Butler Ames. Louis B. Sykes.
Henry K. White, '96.

FRANK N. OWEN, Clerk.

1898.**MAYOR:****JAMES W. BENNETT, '76, '77.****ALDERMEN:**

Charles H. Cosgrove, *'97.	Oliver A. Libby.
Lucius A. Derby, *'97.	Edward B. Peirce, †'79, '80, †'83, '84, *'97.
Charles A. R. Dimon, *'79, Chairman.	Francis P. Rivet, '95, '96.
Edward T. Goward, '95, *'97.	Fred A. Tuttle, *'97.
Guy Holbrook.	

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL:

WARD 1.	WARD 5.
Anadore B. Bosca, '97.	George A. Farley, '97.
Clarence W. Dana, '97.	William J. McCluskey.
Charles D. Paige.	Michael Sullivan, '97.
WARD 2.	WARD 6.
Thomas F. Garvey, '95.	John H. Beaulieu, '97.
James Kennedy, '97.	Walter F. Leighton, '97.
Frank McMahon.	George H. Taylor, '97, President.
WARD 3.	WARD 7.
James Smith, '97.	Alfred J. Howe.
Burton H. Wiggin.	Charles H. Merrill.
Oliver D. Wilder, '97.	Eben B. Stafford.
WARD 4.	WARD 8.
Francis M. Fagan, '97.	Arthur W. Lang, '97.
Michael J. Markham.	Charles F. Libby, '97.
John J. Roark.	Anthony D. Mitten.

Walter E. Murkland. **WARD 9.** Louis B. Sykes, '97.
 William D. Whittet.

FRANK M. DOWLING, Clerk.

1899.**MAYOR:****JEREMIAH CROWLEY, '70, '71, *'73, *'74, *'77, *'78, *'84, *'86, *'91, *'96****ALDERMEN:**

Sam Chapin.	James F. Miskella, '95, '96, '97.
Lucius A. Derby, *'97, *'98.	Edward B. Peirce, †'79, '80, †'83, '84, *'97, *'98.
Charles A. R. Dimon, *'79, *'98.	George H. Taylor, '97, †'98.
Oliver A. Libby, *'98.	Oliver D. Wilder, '97, '98.
Philip McNulty.	

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL:

WARD 1.	WARD 5.
Herbert R. Baker.	Frank S. Clark.
Charles D. Paige, '98, President.	John F. Dillon.
Francis E. Saunders.	John J. O'Brien.
WARD 2.	WARD 6.
Patrick H. Barry, '91, '95.	William E. Badger, '96.
Frank McMahon, '98.	George E. Burns.
John J. Mullaney.	James F. Walker.
WARD 3.	WARD 7.
William H. Brown.	Philip Desmarais.
Chas. H. Flanders.	Lewis Lebrun.
Burton H. Wiggin, '98.	Eben B. Stafford, '98.
WARD 4.	WARD 8.
Timothy F. Donohoe.	Fred E. Bean.
Michael J. Markham, '98.	Ralph B. Lyman.
John J. Roark, '98.	Anthony D. Mitten, '98.

Henry Hatch. **WARD 9.** Walter E. Murkland, '98.
 William D. Whittet, '98.

FRANK M. DOWLING, Clerk.

1900.**MAYOR.**

JEREMIAH CROWLEY, '70, '71, *'73, *'74, *'77, *'78, *'84, *'86, *'91, *'96, †'99.

ALDERMEN.

William E. Badger, '96, '99.
 Cyrus Barton.
 John H. Beaulieu, '97, '98.
 William H. Brown, '99.
 James H. Carmichael, †'87.

Edward S. Howe.
 Charles D. Paige, '98, †'99.
 George H. Taylor, '97, †'98, *'99, **Chairman.**
 William D. Whittet, '98, '99.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.**WARD 1.**

Herbert R. Baker, '99.
 James G. Hill.
 Francis E. Saunders, '99.

WARD 2.

Patrick H. Barry, '91, '95, '99.
 Bernard F. Lee.
 John J. Mullaney, '99.

WARD 3.

Otto Jensen.
 Ephraim D. Livingston.
 George McElroy.

WARD 4.

James B. Casey.
 Timothy F. Donohoe, '99.
 Michael J. Markham, '98, '99.

WARD 5.

T. Frank Clark.
 John F. Dillon, '99.
 Thomas J. McCaffrey.

WARD 6.

Pierre A. Brousseau, '88, '89.
 George E. Burns, '99.
 James F. Walker, '99, **President.**

WARD 7.

Alfred J. Howe, '98.
 Louis Lebrun, '99.
 Eben B. Stafford, '98, '99.

WARD 8.

Fred E. Bean, '99.
 Anthony D. Mitten, '98, '99.
 Charles E. Tilton.

WARD 9.

George Emsley.
 Henry Hatch, '99.
 Daniel N. Pickering.

FRANK M. DOWLING, Clerk.

1901.**MAYOR.**

CHARLES A. R. DIMON, *'79, *'98, *'99.

ALDERMEN.

William E. Badger, '96, '99, *1900.
 James H. Carmichael †'87, *1900.
 Patrick Conlon, '87.
 Philip Desmarais, '99.
 Richard J. McCluskey.

James F. Miskella, '95, '96, '97, *'99, **Chairman.**
 Joseph Mullin.
 Gardner W. Pearson.
 John J. Sullivan, '91, '92.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.**WARD 1.**

Herbert R. Baker, '99, 1900.
 James G. Hill, 1900. Elected Pres. July 2, 1901.
 Mark D. Taylor.

WARD 2.

Peter Daley.
 Patrick J. O'Rourke.
 John H. Spillane. Died April 16.
 John J. Pinder. Elected June 4.

WARD 3.

Otto Jensen, 1900.
 Ephraim D. Livingston, 1900.
 George McElroy, 1900.

WARD 4.

James B. Casey, 1900.
 Timothy Donohoe, '99, 1900.
 Michael J. Markham, '98, '99, 1900.

WARD 5.

T. Frank Clark, 1900.
 Thomas J. McCaffrey, 1900.
 George B. Roche.

WARD 6.

Pierre A. Brousseau, '88, '89, 1900, **President.**
 Resigned July 2, 1901.
 John A. Henderson.
 Harry Swann.

WARD 7.

Louis Lebrun, '99, 1900.
 Joseph A. Legare.
 Albert S. Park.

WARD 8.

James P. Dugdale.
 Albert F. Grant.
 Charles E. Tilton, 1900.

WARD 9.

Charles H. Clough.
 Frank G. Lundberg.
 George Emsley, 1900.
 FRANK M. DOWLING, Clerk.

1902.**MAYOR.**

CHARLES A. R. DIMON, *'79, *'98, *'99, † '01. (Died May 21, 1902.)
WILLIAM E. BADGER, (Acting Mayor.)

ALDERMEN.

William E. Badger, '96, '99, *'00, *'01, Chairman. Lucius A. Derby, *'97, *'98, *'99.
Cyrus Barton, *'00. Charles H. Molloy.
William H. Brown, '99, *'00. James O'Sullivan, '93.
George E. Burns, '99, '00. George F. Stiles.
James H. Carmichael, † '87, *'00, *'01.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.**WARD 1.**

Cecil L. Adams.
James G. Hill, '00, '01, President.
Mark D. Taylor, '01.

WARD 2.

Frederick Cronan.
Peter Daley, '01.
John J. Pinder, '01.

WARD 3.

Asa B. Hilliard.
Thomas G. Little.
Charles H. Worcester.

WARD 4.

James B. Casey, '00, '01.
Timothy Donohoe, '99, '00, '01.
Patrick F. Welch.

William G. Brown.

WARD 5.

John F. Dillon, '99, '00.
Hugh Finnerty.
George B. Roche, '01.

WARD 6.

John A. Henderson, '01.
Elie C. Laporte
Harry Swan, '01.

WARD 7.

Edmond P. Fontaine.
Joseph A. Legare, '01.
Albert S. Park, '01.

WARD 8.

William Fairweather
Albert F. Grant, '01.
Hamlet S. Greenwood.

WARD 9.

Daniel N. Pickering, '00.
FRANK M. DOWLING, Clerk.

John S. Palm.

1903.**MAYOR.**

CHARLES E. HOWE, *'95, *'96, *'97

ALDERMEN.

George E. Burns, '99, '00, *'02
James B. Casey, '00, '01.
Lucius A. Derby, *'97, *'98, *'99, *'02.
James J. Gallagher.
David Gerow.

James G. Hill, '00, '01, † '02.
Richard J. McCluskey, *'01.
James F. Miskella, '95, '96, '97, *'99, *'01, Chn.
Charles H. Molloy, *'02.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.**WARD 1.**

Cecil L. Adams, '02, President.
James W. Barry.
James J. Hayes.

WARD 2.

Thomas J. Conners.
Frederick Gronan, '02.
John J. Pinder, '01, '02.

WARD 3.

Thomas H. Braden.
Asa B. Hilliard, '02.
Charles H. Worcester, '02.

WARD 4.

Dennis J. Cooney.
Timothy Donohoe, '99, '00, '01, '02.
Patrick F. Welch, '02.

WARD 5.

Hugh Finnerty, '02.
Frank A. McLaughlin.
George B. Roche, '01, '02.

WARD 6.

Frederick G. Baldwin.
Samuel Fleming.
C. Fred Hard.

WARD 7.

Edmond P. Fontaine, '02.
William J. Hayes
Andrew Livingston.

WARD 8.

William H. Dodge.
William Fairweather, '02.
Hamlet S. Greenwood, '02.

WARD 9.

William G. Brown, '02.

John W. Daly.

John S. Palm, '02.

FRANK M. DOWLING, Clerk.

1904**MAYOR.**

CHARLES E. HOWE, *'95, *'96, *'97, †'03.

ALDERMEN.

James H. Carmichael, †'87, *'00, *'01, *'02. James G. Hill, '00, †'01, †'02, *'03.
 William Fairweather, '02, '03. James F. Miskella, '95, '96, '97, *'99, *'01, *'03
 James J. Gallagher, *'03. [Chairman.
 David Gerow, *'03. Albion C. Taylor.
 Albert F. Grant, '01, '02. William H. Wilson.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.

WARD 1.
 James W. Barry, '03.
 James H. Fleming.
 James J. Hayes, '03.

WARD 2.
 Thomas J. Connors, '03.
 Frederick Cronan, '02, '03.
 Michael J. Quinn.

WARD 3.
 Thomas H. Braden, '03, President.
 Edmund J. Cheney.
 Charles H. Worcester, '02, '03.

WARD 4.
 Daniel Cosgrove.
 John P. Mahoney.
 Patrick F. Welch, '02, '03.

Burton H. Crosby.

WARD 5.
 John Donohue.
 Andrew McAloon.
 Frank A. McLaughlin, '03.

WARD 6.
 Frederick G. Baldwin, '03.
 John H. Blake.
 Samuel Fleming, '03.

WARD 7.
 William J. Hayes, '03.
 Charles H. May.
 William G. McIntyre.

WARD 8.
 William H. Dodge, '03.
 Solomon S. Mayberry.
 George W. Peterson.

WARD 9.

John S. Palm, '02, '03.

Charles W. Stott.
 FRANK M. DOWLING, Clerk.

1905**MAYOR.**

JAMES B. CASEY, '00, '01, '02, *'03.

ALDERMEN.

Otis Allen. Albert F. Grant, '01, '02, *'04 (Chairman.)
 Thomas H. Braden, '03, †'04. William J. Hayes, '03, '04.
 James H. Carmichael, †'87, *'00, *'01, *'02, *'04 Fred H. Rourke, '93, '94.
 Daniel Cosgrove, '04. James F. Walker, '99, †'00.
 William Fairweather, '02, '03, *'04.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.

WARD 1.
 James H. Fleming, '04.
 James J. Hayes, '03, '04.
 Charles F. Morse.

WARD 2.
 Frederick Cronan, '02, '03, '04.
 Jeremiah A. Daly.
 Frank McMahon.

WARD 3.
 Edmund J. Cheney, '04.
 Harry H. J. Read.
 Wesley M. Wilder.

WARD 4.
 Henry F. Carr.
 Dennis J. Donohue.
 John P. Mahoney, '04.

WARD 5.
 John Donohue, '04.
 Andrew McAloon, '04.
 Edward F. Shea.

WARD 6.
 Frederick G. Baldwin, '03, '04.
 John H. Blake, '04.
 Norman W. White.

WARD 7.
 J. Omer Allard.
 Leon Marcotte.
 William G. McIntyre, '04.

WARD 8.
 William H. Dodge, '03 '04, President.
 Charles N. Leach.
 Solomon S. Mayberry, '04.

WARD 9.

Charles H. Clough, '01

John W. Daly, '03
 FRANK M. DOWLING, Clerk.

Burton H. Crosby, '04.

1906**MAYOR.**

JAMES B. CASEY, '00, '01, '02, *'03, †'05.

ALDERMEN.

Otis Allen, *'05.
 William H. Brown, '99, *'00, *'02
 Daniel Cosgrove, '04, *'05.
 Burton H. Crosby, '04, '05
 John W. Daly, '03, '05.

William H. Dodge '03, '04, †'05.
 William J. Hayes, '03, '04, *'05.
 Andrew Livingston, '03.
 James F. Walker, '99, †'00, *'05 (Chairman).

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.

WARD 1.
 Frank R. Bailey.
 Alfred H. Johnson
 John F. McNamara.

WARD 2.
 John J. Connors.
 Maurice F. Flynn.
 Murthey Lyons.

WARD 3.
 Edmund J. Cheney, '04, '05.
 Harry H. J. Read, '05, President.
 Wesley M. Wilder, '05.

WARD 4
 Henry F. Carr, '05.
 Dennis J. Donohue, '05.
 John P. Mahoney, '04, '05.

WARD 5.
 Jeremiah F. Connors.
 William E. Curtin.
 Joseph H. Mellen.

WARD 6.
 John H. Blake, '04, '05.
 Edwin M. Kittredge
 James H. Leighton.

WARD 7.
 J. Omer Allard, '05.
 Leon Marcotte, '05.
 William G. McIntyre, '04, '05.

WARD 8.
 Charles N. Leach, '05.
 George H. Moody
 George W. Peterson.

WARD 9.
 Charles H. Clough, '01, '05.

Daniel E. Hogan.
 FRANK M. DOWLING, Clerk.

Frederick A. Evans.

1907**MAYOR.**

FREDERICK W. FARNHAM.

ALDERMEN.

James W. Barry, '03, '04.
 Alphonse Bibeault.
 William H. Brown, '99, *'00, *'02, *'06,
 (Chairman.)
 Daniel Cosgrove, '04, *'05, *'06.

Burton H. Crosby, '04, '05, *'06.
 John W. Daly, '03, '05, *'06.
 Lucius A. Derby, *'97, *'98, *'99, *'02, *'03.
 Andrew Livingston, '03, '06.
 Wesley M. Wilder, '05, '06.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL.

WARD 1
 Frank R. Bailey, '06.
 Edwin M. Kittredge, '06
 James H. Leighton, '06, President.

WARD 2.
 John A. Cotter.
 Michael H. Hoar.
 Murthey Lyons, '06.

WARD 3
 Smith J. Adams
 Royal K. Dexter.
 George E. Marchand.

WARD 4.
 Thomas J. Foudy
 John P. Mahoney, '04, '05, '06.
 John J. O'Neil.

WARD 5.
 Jeremiah F. Connors, '06.
 William E. Curtin, '06.
 James J. Flanagan.

WARD 6.
 Albert Bergeron.
 Willbrod Bouthillette.
 Wilfred Cadoret.

WARD 7.
 John B. Boudreau.
 John Thomas.
 John W. Wainwright.

WARD 8.
 George B. McKidder.
 Alexander D. Mitchell.
 George H. Moody, '06.

Murdock McKinnon.

WARD 9
 Tyler A. Stevens
 FRANK M. DOWLING, Clerk.

Craven Midgley.

1908**MAYOR**

FREDERICK W. FARNHAM, †'07.

ALDERMEN

Frank R. Bailey, '06, '07.
 Owen E. Brennan.
 Peter H. Butterworth.
 Frank W. Cheney.

Charles P. Comerford.
 Arthur L. Gray.
 James T. O'Hearn.
 Harry H. J. Read, '05, †'06 (Chairman).
 Wesley M. Wilder, '05, '06, *'07.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL**WARD 1**

Frederick G. Baldwin, '03, '04, '05.
 John A. McKenzie.
 Stanley E. Qua.

WARD 2

John A. Cotter, '07.
 John E. Kearns.
 Murthey Lyons, '06, '07.

WARD 3

Smith J. Adams, '07.
 Royal K. Dexter, '07.
 George E. Marchand, '07.

WARD 4

Dennis J. Donohoe, '05, '06.
 Thomas J. Foudy, '07.
 John P. Mahoney, '04, '05, '06, '07.

WARD 5

James A. Donohoe.
 James J. Flanagan, '07.
 Frederick J. Welch.

WARD 6

Albert Bergeron, '07.
 Wilfred Cadoret, '07.
 Joseph H. Jodoin, Jr.

WARD 7

John B. Boudreau, '07.
 John Thomas, '07.
 John W. Wainwright, '07.

WARD 8

George B. McKidder, '07.
 Alexander D. Mitchell, '07.
 Charles A. Spencer.

WARD 9

Joseph Fielding.

Tyler A. Stevens, '07 (President).

Thomas E. Wilde.

FRANK M. DOWLING, Clerk.

1909**MAYOR**

GEORGE H. BROWN

ALDERMEN

Smith J. Adams, '07, '08.
 William E. Badger, '96, '99, *'00, *'01, *'02.
 Frank W. Cheney.
 Jeremiah F. Connors, '06, '07.

Royal K. Dexter, '07, '08.
 Arthur L. Gray, '08 (Chairman.)
 Tyler A. Stevens, '07, †'08.
 John D. Turner.
 John W. Wainwright, '07, '08.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL**WARD 1**

Otis W. Butler.
 John A. McKenzie, '08.
 Stanley E. Qua, '08 (President).

WARD 2

John J. Brady.
 John F. Gookin.
 John E. Kearns, '08.

WARD 3

Victor F. Jewett.
 Edwin W. Killpartrick.
 George R. Myers.

WARD 4

Charles F. Donahoe.
 John P. Mahoney, '04, '05, '06, '07, '08.
 Edward J. Tarrant.

WARD 5

James J. Flanagan, '07, '08.
 Bernard J. Tracey.
 Frederick J. Welch, '08.

WARD 6

Henry Achin, Jr.
 Joseph H. Jodoin, Jr., '08.
 Felix H. Vigeant.

WARD 7

John B. Boudreau, '07, '08.
 Arthur Genest.
 Alfred T. Howe.

WARD 8

George L. Dow.
 Orrin B. Ranlett, 2d.
 Charles A. Spencer.

WARD 9

John P. Davis.

Harry H. Whittet

Thomas E. Wilde, '08.

FRANK M. DOWLING, Clerk.

1910**MAYOR**

JOHN F. MEEHAN

ALDERMEN

Smith J. Adams, '07, '08, *'09.

Owen E. Brennan, *'08.

Arnold A. Byam.

James H. Carmichael, †'87, *'00, *'01, *'02, *'04, *'05.

Jeremiah F. Connors, '06, '07, *'09.

Royal K. Dexter, '07, '08, *'09.

Arthur L. Gray, '08, '09 (Chairman)

Stanley E. Qua, '08, †'09.

John W. Wainwright, '07, '08, *'09.

GIRARD P. DADMAN, City Clerk.

COMMON COUNCIL**WARD 1.**

Otis W. Butler, '09.

Robert S. Fulton.

John A. McKenzie, '08, '09.

WARD 2.

John J. Brady, '09.

John F. Gookin, '09.

Garrett G. Royal.

WARD 3.

William T. Davis.

Victor F. Jewett, '09 (President).

Edwin W. Killpartrick, '09.

WARD 4.

Charles F. Donahoe, '09.

William J. Gargan.

Edward J. Tarrant, '09.

WARD 5.

James J. Flanagan, '07, '08.

Cornelius J. Sullivan.

Bernard J. Tracey, '09.

WARD 6.

Henry Achin, Jr., '09.

James A. Burns.

Joseph H. Jodoin, Jr., '08, '09.

WARD 7.

Arthur Genest, '09.

Alfred T. Howe, '09.

Ovila Morin.

WARD 8.

George L. Dow, '09.

Herbert E. Elliott.

Orrin B. Ranlett 2d, '09.

WARD 9.

Herbert L. Chapman, '09.

John P. Davis, '09.

Harry H. Whittet, '09.

FRANK M. DOWLING, Clerk.

EIGHTY-FIFTH ANNUAL REPORT

OF THE

School Committee

OF THE

CITY OF LOWELL, MASS.

AND THE

FORTY-SEVENTH ANNUAL REPORT

OF THE

Superintendent of Public Schools

1910



BUTTERFIELD PRINTING COMPANY
LOWELL, MASS.
1911

CITY OF LOWELL

Office of the School Committee,

Lowell, Mass., December 27, 1910.

At a meeting of the School Committee, held December 27, 1910, it was voted to adopt the report of the Superintendent of Schools for 1910 as the Report of the School Committee for that year, and to authorize the printing of the report.

In accordance with this vote the report is herewith submitted.

Arthur K. Whitcomb,
Secretary.

ORGANIZATION

OF THE

School Committee

1910

J. ELZEAR LAMOUREUX, M. D., President.
ARTHUR K. WHITCOMB, Secretary.

Ward 1—	EDWARD T. GOWARD, 274 Appleton St.	Term expires	1911
" 2—	THOMAS MAHONEY, Jr., 139 Colburn St.	" "	1911
" 3—	EDMUND T. SIMPSON, 393 Wilder St.	" "	1910
" 4—	JOHN H. PYNE, 823 Central St.	" "	1911
" 5—	EUGENE F. TOOMEY, 168 Lawrence St.	" "	1910
" 6—	J. ELZEAR LAMOUREUX, M. D., 710 Mer'k	" "	1910
" 7—	JOHN H. LAMBERT, M. D., 70 Wannalancit	" "	1911
" 8—	FRANKLIN E. JOHNSON, 417 Mid'sex St.	" "	1910
" 9—	CRAVEN MIDGLEY, 169 Meadowcroft St.	" "	1911

STANDING COMMITTEES

On Teachers—Messrs. Lamoureux, Midgley, Toomey.

On Finance—Messrs. Midgley, Simpson, Pyne.

On Books and Supplies—Messrs. Goward, Johnson, Lambert, Mahoney, Pyne.

On Evening Schools—Messrs. Simpson, Lamoureux, Johnson, Lambert, Toomey.

On High School—Messrs. Johnson, Goward, Simpson, Toomey, Pyne.

On School Houses and Hygiene—Messrs. Lambert, Midgley, Mahoney.

On Rules—Messrs. Goward, Lamoureux, Mahoney.

ASSIGNMENT OF SCHOOLS

Mr. Goward, Ward 1—High, Varnum, Kirk, Eliot, Tenth, Billings; Varnum Kindergarten.

Mr. Mahoney, Ward 2—Green, Worthen, Morrill.

Mr. Simpson, Ward 3—High, Lincoln, Franklin, Howard, Powell, Dover, Grand, Laura E. Lee; Dover, Lincoln, Franklin and Laura E. Lee Kindergartens.

Mr. Pyne, Ward 4—High, Butler, London, Weed, Agawam, Carter, Lyon; Agawam and Chapel Kindergartens.

Mr. Toomey, Ward 5—High, Edson, Training, Charles, Central, Ames, Cottage; Charles street Kindergarten.

Dr. Lamoureux, Ward 6—Training, Greenhalge, West Sixth, Lakeview, Cabot, Cheever.

Dr. Lambert, Ward 7—Bartlett, Pawtucket, Cross, New Moody, Lexington; Pawtucket and Bartlett Kindergartens.

Mr. Johnson, Ward 8—High, Highland, Washington, Franklin, Pine, Middlesex Village; Pine street Kindergarten.

Mr. Midgley, Ward 9—Moody, Training, Riverside, Pond, High street, Sycamore; Moody Kindergarten.

ASSIGNMENT OF EVENING SCHOOLS

Mr. Simpson—High, Drawing.

Dr. Lambert—Bartlett, Green, Cheever.

Dr. Lamoureux—Greenhalge, Old Moody, Colburn, Middlesex Village.

Mr. Johnson—Mann, Worthen.

Mr. Toomey—Edson, Butler, Franklin, Riverside.

ARTHUR K. WHITCOMB, Superintendent of Public Schools.

Office in City Hall.

Office Hours—One hour after the forenoon session of schools and from 10 to 12 o'clock on Saturday forenoon. Telephone 2728.

HENRY L. WILLIAMS, School Supply Agent.

Office in School Supply Room, City Hall.

Hours—8 a. m. to 12.30 p. m., and 1 to 5 p. m. Office Telephone 2727.

Home Telephone 2714.

WM. F. THORNTON, Supervisor of Janitors.

Office, City Hall, Third Floor.

Office Hours—12 m. to 1 p. m. Home Telephone 1046-5.

TRUANT COMMISSIONERS

WM F. THORNTON,

CAMILLE ROUSSIN, **HENRY L. WILLIAMS**,

JOHN J. WALKER.

Office in City Hall, Third Floor.

Office Hours—12 m. to 1 p. m. for all the working day of the year.

REGULAR MEETINGS OF THE SCHOOL COMMITTEE

January 25	February 23	March 29	April 26
May 31	June 28	July 26	August 30
September 27	October 25	November 29	December 27

ORGANIZATION

OF THE

School Committee

1911

FRANKLIN E. JOHNSON, President.

ARTHUR K. WHITCOMB, Secretary.

Ward 1—	EDWARD T. GOWARD, 274 Appleton St.	Term expires	1911
“ 2—	THOMAS MAHONEY, Jr. 139 Colburn St.	“ “	1911
“ 3—	EDMUND T. SIMPSON, 393 Wilder St.	“ “	1912
“ 4—	JOHN H. PYNE, 823 Central St.	“ “	1911
“ 5—	JOHN C. FARRINGTON, 182 Perry St.	“ “	1912
“ 6—	CHARLES T. McKENZIE, 101 Coburn St.	“ “	1912
“ 7—	JOHN H. LAMBERT, M. D., 70 Wannalancit	“ “	1911
“ 8—	FRANKLIN E. JOHNSON, 417 Mid'sex St.	“ “	1912
“ 9—	CRAVEN MIDGLEY, 169 Meadowcroft St.	“ “	1911

STANDING COMMITTEES

On Teachers—Messrs. Midgley, Simpson, Pyne.

On Finance—Messrs. Midgley, Lambert, McKenzie.

On Books and Supplies—Messrs. Simpson, Johnson, Mahoney, Farrington, Pyne.

On Evening Schools—Messrs. Goward, Johnson, Lambert, Mahoney, Farrington.

On High School—Messrs. Johnson, Goward, Simpson, Pyne, Farrington.

On School Houses and Hygiene—Messrs. Lambert, Midgley, McKenzie.

On Rules—Messrs. Goward, Mahoney, McKenzie.

ASSIGNMENT OF SCHOOLS

Mr. Goward, Ward 1—High, Varnum, Edson, Kirk, Eliot, Tenth; Varnum Kindergarten.

Mr. Mahoney, Ward 2—Green, Worthen, Morrill.

Mr. Simpson, Ward 3—High, Lincoln, Franklin, Howard, Powell, Dover, Grand, Laura E. Lee; Dover, Lincoln, Franklin and Laura E. Lee Kindergartens.

Mr. Pyne, Ward 4—High, Butler, London, Weed, Agawam, Carter, Lyon; Agawam and Chapel Kindergartens.

Mr. Farrington, Ward 5—High, Colburn Grammar, Colburn Primary, Charles, Central, Ames, Cottage; Charles street Kindergarten.

Mr. McKenzie, Ward 6—Greenhalge, West Sixth, Billings, Lakeview, Cabot, Cheever.

Dr. Lambert, Ward 7—Bartlett, Pawtucket, Cross, New Moody, Lexington; Pawtucket and Bartlett Kindergartens.

Mr. Johnson, Ward 8—High, Highland, Washington, Pine, Middlesex Village; Pine street Kindergarten.

Mr. Midgley, Ward 9—Moody, Riverside, Pond, High street, Sycamore; Moody Kindergarten.

ASSIGNMENT OF EVENING SCHOOLS

Mr. Goward—High, Drawing, Edson.

Dr. Lambert—Bartlett, Green, Cheever, Middlesex Village.

Mr. Farrington—Greenhalge, Old Moody, Colburn.

Mr. Mahoney—Butler, Franklin, Riverside.

Mr. Johnson—Mann, Worthen.

ARTHUR K. WHITCOMB, Superintendent of Public Schools.

Office in City Hall.

Office Hours—One hour after the forenoon session of schools and from 10 to 12 o'clock on Saturday forenoon. Telephone 2728.

Home Telephone 2030.

HENRY L. WILLIAMS, School Supply Agent.

Office in School Supply Room, City Hall.

Hours—8 a. m. to 12.30 p. m., and 1 to 5 p. m. Office Telephone 2727.

Home Telephone 2714.

WM. F. THORNTON, Supervisor of Janitors.

Office, City Hall, Third Floor.

Office Hours—12 m. to 1 p. m. Home Telephone 1046-5.

TRUANT COMMISSIONERS

WM. F. THORNTON,

CAMILLE ROUSSIN, HENRY L. WILLIAMS,

JOHN J. WALKER

Office in City Hall, Third Floor.

Office Hours—12 m. to 1 p. m. for all the working days of the year.

REGULAR MEETINGS OF THE SCHOOL COMMITTEE

January 31	February 28	March 28	April 25
May 31	June 27	July 25	August 29
September 26	October 31	November 28	December 26

REPORT OF THE Superintendent of Schools

Office of the Superintendent of Schools,

December 31, 1910.

Gentlemen of the School Committee:

In accordance with your rules, I have the honor to submit the following as my report for the year 1910.

SUMMARY OF STATISTICS

Valuation of City (basis of taxation in 1910)	\$79,844,449.00
Valuation of school houses and lots	1,959,750.00
Rate of taxation (\$19.60 per \$1000)	1.96 per cent.
Net expenditures of City, for all purposes, schools included	2,521,947.97
*Expenditures for day schools	353,969.16
Expenditures for evening schools	23,141.80
Day school expenditures to total valuation .....	.44 per cent.
Day and evening school expenditures to total valuation.....	.47 per cent.
Day school expenses to total expenditures of City	14 per cent.
Day and evening school expenses to total expenditures of City	15 per cent.
Population by census of 1910	106,294
Number of polls	27,196
Increase for the year	736
Number of children between five and fifteen years of age, September 1, 1910	14,520
Ward One, 1055 Ward Six, 3033	
" Two 1597 " Seven, 1493	
" Three 1547 " Eight, 1249	
" Four, 1471 " Nine, 1686	
" Five, 1389	
Decrease in the year	220

*Payments for the board of truants in the county Training school are not included, such payments being no part of legitimate school expenses.

Number between 7 and 14 (compulsory school age)	10,479
Decrease for year	321
Number of public schools	63
One High, thirteen Grammar, thirty-five Primary, two Mixed, twelve Kindergarten.	
Number of public school buildings	59
Occupied by day schools, 53; used for evening schools, 3; unoccupied, 3.	
Number of school rooms in actual use	305
High, 37; Grammar, 126; Primary, 125; Mixed, 4; Kindergarten, 13.	
Elected teachers Dec. 31, 338; on leave, 11; in service	327
Teachers in service Dec. 31, including clerk at H. S.	340
Elected, 327; appointed, 12; clerk at High School, 1.	
Subdivisions of Elected Teachers:	
High, 39, 15 men, 24 women; Grammar, 133, 11 men, 122 women; Primary, 129 women; Mixed, 4 women; Kindergarten, 23 women; Drawing, 2 women; Music, 2, 1 man, 1 woman; Kindergarten supervisor, 1 woman; Sewing, 1 woman; Manual Training, 1 woman; School visitor, 1 woman; unassigned, 2 women.	
Teachers in Evening Schools, term of 1909-10	145
High, 30; Elementary, 99; Drawing, 16.	
Pupils enrolled in Evening Schools, term of 1909-10	3744
High, 1122; Elementary, 2263; Drawing, 359.	
Whole number of pupils enrolled in Day Schools	13,019
High, 1213; Grammar, 5717; Primary, 5318; Mixed; 141; Kindergartens, 630.	
Average number belonging to Day Schools	11,108
High, 1124; Grammar, 5076; Primary, 4382; Mixed, 117; Kindergartens, 409.	
Average attendance	10,127
High, 1069; Grammar, 4721; Primary, 3920; Mixed, 105; Kindergartens, 312.	

Average number belonging to each teacher	34
High, 33; Grammar, 37; Primary, 35; Mixed, 29; Kindergarten, 18.	
Average belonging to each room	37
High, 30; Grammar, 40; Primary, 35; Mixed, 29; Kindergarten, 34.	
Average per cent. of attendance	91
High, 95; Grammar, 93; Primary, 89; Mixed, 90; Kindergarten, 76.	
Average cost of each pupil, for tuition only, based on the average number belonging	\$22.97
High, \$37.79; Grammar, \$21.19; Primary, and Mixed, \$19.82; Training, \$17.78; Kindergarten, \$31.23.	
*Total cost per pupil for tuition, salaries of janitors, medical inspection, six-sevenths of supervision, supplies, fuel, and all incidentals, based on enrolment	\$27.19
Same based on average number belonging	\$31.86
Average cost per pupil in evening schools for teachers and janitors, based on average number belonging, \$7.97; in evening drawing schools, \$13.19; in evening schools, tuition, fuel, light, supplies and one-seventh of supervision included, \$9.97; evening drawing schools, fuel, light and supplies included, \$14.86.	

* Payments for the board of truants in the county training school are not included.

RECEIPTS AND EXPENDITURES

Receipts

Appropriated and assessed in 1910	\$380,721.08
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Expenditures

Paid to teachers of day schools:—

High School		\$ 42,579.88
Grammar Schools—Bartlett School	\$ 9,470.19	
Butler School	12,857.12	
Colburn School	2,252.06	
Edson School	9,620.14	
Green School	9,610.02	
Greenhalge School	6,177.96	
Highland School	11,809.30	
A. Lincoln School	8,803.99	
Moody School	8,790.89	
Pawtucket School	5,998.50	
Riverside School	2,201.50	
Varnum School	11,570.62	
Washington School	3,312.45	
		102,474.74
Primary and Mixed Schools		86,797.29
Training School		5,954.23
Kindergartens		12,772.50
Special teachers		4,630.38
		<hr/>
Total paid for instruction in day schools		255,209.02

School physicians and school visitor:—

Paid school physicians	\$ 1,800.00	
Paid school visitor	620.00	
	<hr/>	2,420.00

Janitors:—

Paid janitors of day schools	44,830.69
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Evening Schools:—

Teachers, High and Elementary Schools	\$13,240.00	
Teachers, Drawing and Art Schools	2,667.00	
Janitors	2,892.00	
	<hr/>	18,799.00

Cost of supervision:—

Superintendent of Schools	\$ 3,000.00	
Office Assistant	600.00	
Truant officers (four)	4,250.00	
Assistant in supply room	695.25	
	<hr/>	8,545.25

Total of Salaries	\$329,803.96
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Bills

Coal (evening schools \$813.68)	\$ 16,296.74
Wood (evening schools \$15.50)	841.00
Water (evening schools \$22.82)	1,367.17
Gas (evening schools \$748.97)	1,236.04
Electric lighting (evening schools \$651.95)	771.23
Electricity for power	2,293.56
Repairs by Supt. Public Buildings	1,455.84
General repairs	804.55
Electrical repairs (evening schools \$40.41)	405.71
Text books (evening schools \$389.42)	6,444.46
Writing books, stationery, etc. (eve. schools \$220)	5,712.63
Supplies for janitors	1,990.34
Material for sewing	342.16
Supplies for kindergartens	505.79
Supplies and apparatus, H. S. laboratories	77.08
Manual training supplies (\$282.24 new lathes)	646.22
Bills of Middlesex County, board of truants	3,610.12
Printing, including annual report (eve. sch. \$91)	1,517.75
Board of horses, repairs of carriages, etc. (evening schools \$6)	866.14
High School Regiment	357.98
Graduations (evening schools \$95.05)	456.95
Medical Inspection	9.00
New typewriters	1,208.05
Telephones	68.26
Manual training in grammar schools	400.89
Rent of room and land	266.00
Miscellaneous (evening schools \$27.25)	965.46
Total of bills	\$ 50,917.12
Total expenditures	380,721.08

School House Repairs

Expenditures by Lands and Buildings Department	\$ 30,804.27
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New Washington School House

Balance of appropriation on hand Jan. 1, 1910	\$ 2,178.87
Expended in 1910	2,152.46
Balance returned to treasury fund	\$ 26.41
Total cost of the George Washington school house, including \$2,200 for land	\$ 89,700.00

School Census and Attendance

The school census of September, 1910, recorded but 14,520 children in the city between five and fifteen years of age, a number 220 less than that of the year

before. In polls there was an increase of 736. In population the census of 1910 showed a gain of 11,449 over that of 1905. In other years while polls were decreasing and population was remaining stationary children have almost always increased as shown by the school census, and always as shown by the records of school attendance. This year however, the reverse is true, so far as the school census is concerned. The explanation is probably found in the small proportion of children who are included in recent immigration.

Receipts and Expenditures

Salary payments in 1910 differed from those of 1909 by only \$175, but supplies cost \$1,766 more, and total expenses were more by \$1,941, such expenses being \$380,721.08. This is a slightly smaller sum than was expended in 1908, and \$3,575 less than in 1907. The increase in bills is more than accounted for by new equipment for manual training in the grammar and high schools, and by new typewriters (50) bought for the commercial department of the high school.

Salaries of grammar masters have been raised a little, a supervisor of manual training has been appointed, and an additional teacher will be employed at the Washington school in 1911, thus increasing salaries somewhat. Some reductions through combining rooms are probable, however, so that the total expense for salaries in 1911 will be but little greater

than in 1910. Bills, especially for fuel, are certain to be larger, so that an appropriation about \$5000 greater than the expenditures of 1910 should be asked for, and given, for 1911.

In text books, writing books, materials for drawing, stationery, material for sewing, supplies for laboratories, manual training, etc., as ordered by masters and principals, there was the same rigid economy, in almost all cases, as in past years, as the subjoined table will show:

	Cost 1910	Pupils 1910	Average 1910	Average 7 Years
High School	\$4,147.40	1124	\$3.69	\$3.96
Grammar Schools				
Bartlett	\$ 389.23	448	\$.87	\$1.56
Butler	994.21	646	1.54	1.41
Colburn	415.19	347	1.20	
Edson	275.76	468	.59	1.09
Green	330.50	416	.79	1.32
Greenhalge	297.18	283	1.05	2.11
Highland	671.45	552	1.22	1.31
Lincoln	372.49	440	.85	1.39
Moody	514.09	399	1.29	1.08
Pawtucket	389.04	268	1.45	1.27
Riverside	146.98	105	1.40	
Varnum	520.41	546	.95	1.10
Washington	390.62	158	2.47	
Totals	5,707.15	5076	1.12	1.37
Primary Schools				
Agawam	\$ 44.45	101	\$.44	\$.39
Ames	32.96	101	.33	.35
Bartlett	166.27	208	.80	
Billings	55.86	151	.36	.47
Cabot	27.71	85	.33	.47
Central	77.50	145	.53	.43
Charles	82.35	148	.56	.49
Cheever	19.74	103	.19	.47
Cottage	21.98	98	.22	.39
Carter	44.75	174	.26	.40

Cross	\$ 68.12	85	\$.80	\$.62
Dover	56.31	107	.53	.47
Eliot	32.42	131	.25	.31
Franklin	71.38	120	.59	.46
Greenhalge	29.75	107	.28	
High Street	18.63	80	.23	.39
Howard	97.13	137	.71	.55
Kirk	26.99	75	.36	.42
Lakeview	74.16	172	.43	.53
Lexington	69.51	24	2.89	.96
London	78.74	138	.57	.57
Lyon	77.25	182	.42	.52
Lincoln	20.00	82	.24	.31
Morrill	43.67	84	.52	.53
Middlesex	36.97	93	.39	.70
Moody Street	170.28	221	.77	.37
Oaklands	45.47	64	.71	.54
Pine	44.62	100	.45	.48
Pond	72.69	87	.49	.33
Powell	28.51	83	.34	.65
Laura Lee	131.80	187	.70	.40
Riverside	26.95	102	.26	
Tenth	54.37	168	.32	.30
Colburn	90.00	176	.51	
Weed	25.87	104	.25	.52
West Sixth	55.91	142	.39	.43
Worthen	84.47	134	.63	.48
Totals	2,175.55	4499	.48	.45
Kindergartens	540.23	409	1.32	.99
Totals for all schools	12,570.33	11,108	1.13	1.21

A comparison of the foregoing table with that of 1909 shows that the grammar schools reduced expense per pupil from \$1.24 to \$1.12, that the primary and mixed schools increased from \$.38 to \$.48, and the kindergartens increased from \$.84 to \$1.32. The increase in the primary schools was mainly due to the addition of a new basal reader with accompanying charts, and that in the kindergartens was due to the addition of sand tables, both expenditures not likely soon to be duplicated. In seven years the grammar schools have averaged \$1.37 and the primary schools \$.45 per pupil. Except for emergencies or radical

change of text books these sums would seem to be adequate, and requests for supplies from a grammar school to an amount of more than \$1.50 per pupil, or from a primary school for more than \$.50 per pupil, or at most \$.60, may fairly be deemed to require explanation before being granted. To this the Washington school, which will open a new ninth grade in 1911, is an obvious exception.

School Houses

The school houses are generally in good condition, a fact reflecting great credit on Mr. Dow, Inspector of Public Buildings, who has made an inadequate appropriation go a very long way. The vexed question as to whether repairs of pupils' seats and desks belong to the city council, the landlord, or to the school department, the tenant, has finally been settled by the good offices of the city solicitor and the good judgment of the committee on lands and buildings in favor of the city council, by whom it is agreed that such repairs shall be made in the future. A much needed beginning has been made by Mr. Dow in 1910, to the great gratification of the teachers and pupils of the schools he has reached.

No old house had been disposed of in 1910, although the Hadley street and Fayette street houses are unused, and the school committee has expressed a willingness to part with them. The former must soon be repaired or it will fall to pieces, and it hardly seems worth while to expend money on a building

we can neither use nor sell. The ten-year lease of the building at the corner of Charles and Chapel streets expires in January, 1911, and will not be renewed. In anticipation of ceasing to rent this property the kindergarten which has been housed in it for nearly ten years was moved to the Colburn Primary building in September last, two office rooms in that building having been combined into one fine large school room to make room for the new comers.

The only rental to be paid next year is for land on which the West London street school house stands. This house is in need of repair, and of sewer connection, and it is obvious that before any more money is expended on it the land on which it stands should be purchased, or the building should be moved to some nearby land, of which there is much now vacant. The building is small, but one of its two rooms being occupied. It has been moved once, the long distance from Race street, and a second pilgrimage to some nearby lot would be a matter of small difficulty or cost.

No new house was built or planned in 1910. The Washington school house, practically completed in 1909, was finished in 1910 so far as the expenditure of the last dribblet of the appropriation for its erection is concerned. This was the only work on new buildings. For 1911 the greatest and most pressing need is for a new high school building, a matter which will be considered later in this report in connection with a communication from the headmaster of the school.

Schools and Teachers

The most notable change in schools was the closing, in June, of the Training school as a school for the training of teachers, and the division of its pupils into a grammar school of nine rooms and a primary school of four rooms.

The Training school, as constituted in recent years, has occupied two buildings, the old Colburn school house on Lawrence street, and a building of five rooms on Charles street, near Lawrence. The average number of pupils belonging in the school year 1909-1910 was 674. Instruction was given by a half dozen regular teachers, and by a varying number of inexperienced teachers, averaging about a dozen, who were known as the Practice Class, and whose work was being tested with a view to permanent positions later. The whole was supervised by a principal and three or four assistants, or critic teachers, who did much teaching in rooms as needed, the theory being that the unusual amount of supervision and expert teaching would so counterbalance the lack of experience of the teachers under test that the pupils would be as well cared for as in other schools. This method of work ceased with the graduation of the last practice class in June, and when the schools opened in September the teaching was placed in the hands of thirteen regular teachers. Miss Helen M. Shean was made principal of the grammar department in the Colburn school building, and Miss Ellen M. Holden, transferred from New Moody street, was made principal of the Charles street house,

now known as the Colburn Primary. Both are doing excellent work, and their schools are not only in fine shape already, but are steadily growing better.

Following are the changes in the roll of teachers:

RESIGNED

	Term of Service
Rebecca A. Gardner	4 years
Alice Leahey	2 years
Grace Ward	15 years
Gertrude Edmund	15 years
Anna A. Sargent	46 years
Mary T. Lennon	25 years
Charlotte M. Murkland	12 years
Elizabeth M. Butler	9 years
Elizabeth A. Hart	24 years
Mary M. Kearney	15 years
Julia A. Kenney	9 years
Geo. I. Cross	1 year
Albert E. Peaslee	
Annabel Costello	22 years
Mabel H. Hall	1 year

TRANSFERRED

Helen M. Shean, from the Training to the Principalship of the Colburn school.
 Addie B. Merrill, from the Training to the Principalship of the New Moody street school.
 Mabel W. Ewings, from the Training to a supervisorship of Manual Training.
 Grace C. Delaney, from the Training to the New Moody street school.
 Mary E. Snow, from the Training to the New Moody street school.
 Maud M. Hardy, from the Pawtucket to the New Moody street school.
 Carrie M. Hart, from the Pawtucket to the Lexington Avenue school.
 Annie V. Donoghue, from the Greenhalge to the Varnum school.
 Corinna G. Cover, from the Grand street to the Pawtucket school.
 Helen Kohawn, from Lexington Avenue to the Cheever street school.
 Ellen M. Holden, from New Moody street to Colburn Primary school.
 Eugenia L. Hogan, from the New Moody street to the Cabot street school.
 Nellie F. Davidson, from New Moody street to the Colburn Primary school.

ELECTED

Leah A. DeMerritt, to the High school.
 Elmer G. Brennan, to the High school.
 Raymond W. Sherburne, to the High school.
 Albert E. Peaslee, to the High school.
 Warren C. Shaw, to the High school.
 James Shanley, to the High school.
 Minnie E. Coburn, to the Laura Lee school.
 Anna T. Coffey, to the Morrill school.

Florence R. Foote, to the Colburn school.
 Eugenie V. Frappier, to the Cheever street school.
 Grace E. Frye, to the Greenhalge school.
 Loretta A. Hannafin, to the Lyon street school.
 Anna M. Higgins, to the Agawam street school.
 M. Alice Mather, to the Moody school.
 Anna T. McCarron, to the Colburn school.
 Mary Richardson, to the Franklin school.
 Katherine M. Tobin, to the Colburn Primary school.
 Susan F. Burbank, to the Edson school.
 Clotilda A. Delaney, to the Colburn Primary school.
 Elizabeth A. Gilinson, to the Riverside school.
 Cora E. Jones, to the Green school.
 Charlotte O. Lowe, to the Riverside school.
 Ellen F. Lynch, to the Lyon street school.
 Charlotte A. Parsons, to the Grand street school.
 Alice O. Stickney, to the Billings street school.
 Grace M. Thurber, to the Greenhalge school.
 Eleanor J. LeLacheur, to the New Moody street school.
 Ivah M. Connell, to the Bartlett school.
 Alice M. French, continued in service as School Visitor.
 May E. P. Lowney, unassigned, on leave of absence for one year.
 Fannie G. Hobbs, unassigned, on leave of absence for one year.

Of those who resigned Miss Hall and Miss Sargent did so on account of ill health; Dr. Edmund, Miss Murkland and Messrs. Cross and Peaslee did so to accept better positions elsewhere; Misses Gardner, Leahey, Butler, Hart, Kearney and Kenney did so to marry, and Misses Ward, Lennon and Costello at the call of home duties or privileges, or to enjoy a well earned rest.

Pupils by Grades

The number of pupils in school in December, arranged by grades or years is as follows:

	Males	Females	Total	Per Cent Decrease		Males	Females	Total	Per Cent Decrease
Kind'tens	178	209	387		Grade 7,	390	396	786	12
Ungraded	20	7	27		" 8,	294	313	607	23
Grade 1,	921	840	1761		" 9,	255	269	524	14
" 2,	747	701	1448	18	" 10,	204	226	430	18
" 3,	610	564	1174	19	" 11,	151	151	302	30
" 4,	596	561	1157	1	" 12,	82	133	215	29
" 5,	547	522	1069	8	" 13,	117	143	260	*21
" 6,	438	458	896	16					
*Increase					Totals	5550	5493	11043	

A comparison of the foregoing table with the similar one presented one year ago shows some very encouraging improvements, the per cent. of loss having fallen off materially between a large majority of the grades. The per cent. of loss between grade 1 and grade 2 in 1909 was 23; this year it is but 18. Between grades 2 and 3 the loss has been reduced from 20% to 19%. Between grades 3 and 4 there was no loss last year, and a loss of but 1% this year, and between grades 4 and 5 a decrease of 14% in 1909 has been reduced to 8% in 1910. The next step, though, shows a reverse, 16% this year against 9% last year, but improvement begins again between grades 6 and 7, a decrease of 17% last year being reduced to 12% this year. Evidently attention in 1911 needs to be concentrated on grade 5. The total average decrease of all the grades, high school included, is 14% this year against 16% last year, a very handsome gain. For this, great credit is due the teachers. The subject was discussed at some length in the report for 1909. Attention is now called to it again in the hope that renewed and more strenuous efforts all along the line will make the record for 1911 as much better than that of 1910 as that of the present year is better than that of 1909.

High School

The High school graduated a class of 219 in June, and received an entering class of 443 in September. Of the latter 323 were from grammar schools, 66 from parochial schools, 46 from adjoining

towns which possess the certificate privilege, and 8 were admitted by examination. The number of pupils of the public grammar schools who were promoted to the high school was 409. Of these 86, or 21 per cent. failed to present themselves at the High school in September.

Graduation exercises were held in the Opera House June 21. The program, the names of the graduates, and the names of the Carney Medal and Honorable Mention students are as follows:

ORDER OF EXERCISES

- 1 MARCH National Emblem *Bagley*
AMERICAN ORCHESTRA

- 2 CHORUS Unfold, Ye Portals. (Redemption) *Gounod*
 (1) Chorus
 Unfold, unfold, unfold, Ye portals everlasting
 With welcome to receive Him ascending on high,
 Behold the King of Glory! He mounts up through the sky,
 Back to the heavenly mansion hasting.
 Unfold, unfold, unfold, For lo! the King comes nigh.
 But who is He, the King of Glory?
 Of hosts He is the Lord, of angels and of powers,
 The King of Glory is the King of the Saints!

- 3 SATUTATORY The Master Word *Elizabeth Irish*
Delivered by RUBY COLMAN HULL

- 4 SEMI-CHORUS My Little Barque *J. S. Ford*
Soprano: MISSES FOSS, '10, MCGREGOR, '10, PERKINS, '10.
Alto: MISSES FULLER, '10, SILK, '10.
Tenor: MESSRS. MELLOON, '10, WHEELER, '10.
Bass: MESSRS. SLATTERY, '10, SWEATT, '10, TIBBETTS, II.

- 5 SELECTION Il Trovatore *Verdi*
AMERICAN ORCHESTRA

6 ADDRESS

DEAN LE BARON RUSSELL BRIGGS, Harvard University

7 CHORUS The Storm-Fiend

J. L. Roeckel

8 PRESENTATION OF CLASS GIFT

JAMES HENRY ROONEY, Class President

ACCEPTANCE FOR THE SCHOOL

MR. FRANKLIN E. JOHNSON, Chairman
High School Committee

9 PRESENTATION OF THE LOWELL HISTORICAL SOCIETY PRIZES

For Best Historical Essays on the following subject:
"THE MERRIMACK RIVER IN HISTORY AND LITERATURE"

First Prize: \$10 in gold, Gladys Louise Melloon

Second Prize: \$5 in gold, Ruth Paris Wedge

Presented by ALFRED P. SAWYER, Esq.

10 SEMI-CHORUS The Brown Thrush

Schnecker

Soprano: MISSES MELLOON, '10, PERKINS, '10.

Alto: MISSES MURPHY, '10, GARDNER, '10.

Bass: MESSRS. GLEASON, '10, TEESON, '11.

11 PRESENTATION OF CARNEY MEDALS

Honorable mention of those who have attained
a scholarship rank of 90 per cent.

MR. ARTHUR K. WHITCOMB, Superintendent of Schools

12 GLEE CLUB

a *Duet* The Pilot

Millard

MESSRS. MELLOON, '10, LEGGAT, '12

b *Chorus* The Trumpet Calls Away

H. M. Dow

GLEE CLUB

c *Chorus* Women

Kratz

GLEE CLUB

First Tenor: MESSRS. MELLOON, '10, WHEELER, '10, JONES, '10.

Second Tenor: MESSRS. RODGER, '10, PUTNAM, '10,
GLEASON, '10.

First Bass: MESSRS. SLATTERY, '10, HAZELTINE, '10, TEESON, '11.

Second Bass: MESSRS. SWEATT, '10, LEGGAT, '12, TIBBETTS, '11.

13 VALEDICTORY A Breaker of Rocks,

CHARLES THEOPHILUS PILOTE

14 CHORUS With Sheathed Swords. (Naaman)

Sir Michael Costa

15 PRESENTATION OF DIPLOMAS

HIS HONOR, THE MAYOR, JOHN F. MEEHAN

16 CLASS ODE Air, "Tenting on the Old Camp Ground"

Words by Ruth Paris Wedge

We're thinking tonight of the days gone by,
Happy and joyous days,
When merry our laugh, our burdens few
And our young hearts light always.
We're sad as we think those days are past
And the hour is drawing nigh,
When to teachers true and schoolmates dear
We must breathe our sad good-bye.

REFRAIN

We're thinking tonight, thinking tonight,
Thinking of the days gone by.
Thinking tonight, thinking tonight,
Thinking of the days gone by.

Dear school, though this life may lead us far
O'er land and distant sea,
No years can weaken the chords of love
That bind our hearts to thee.
And when bright June strews the earth with flowers
On each yet unborn year,
On the wings of love will we return
To thy old halls so dear.

REFRAIN

We're thinking tonight, thinking tonight,
Thinking of the days gone by.
Thinking tonight, thinking tonight,
Thinking of the days gone by.

17 MARCH America

Blan

AMERICAN ORCHESTRA

GRADUATES

Five Years' Course

Alice Esther Harrigan

Four Years' Course

Anderson, Marion
Arnold, Gladys Helen
Bolton, Anna Clotilda
Brainard, Hazel Streeter
Braley, Elsa Clare
Burton, Sarah Alberta
Calnan, Marietta Margaret
Cameron, Frances Christine
Choate, Margaret
Cinq-Mars, Eva
Coburn, Bertha Melba
Coburn, Lena Maria
Considine, Agnes Louise
Denton, Maude Holt
DeVoe, Edith Bell
Erskine, Alice Russell
Farnham, Elizabeth Tucker
Finegan, Florence Gertrude
Flahavan, Mary Elizabeth
Foss, Ruth Esther
Frappier, Delia Georgiana
Fuller, Ruth
Gardner, Hazel Annie
Gaudette, Aurore Lea
Goodell, Mary Janet
Gordon, Ether Del
Gray, Maude Phelps
Hale, Florence Maynard
Hall, Mildred Butcher
Healey, Gladys Belle
Hill, Mabelle Ida
Hoagland, Gladys
Horne, Augusta Mildred
Hull, Ruby Colman
Irish, Elizabeth
Kerr, Doris Hilda
Kiernan, Margaret Elizabeth
Lang, Anna Marguerite
Libby, Belle Tucker
Lofgren, Elma Wilhelmine

Louporet, Gertrude Irene
Masterson, Anna Josephine
Miller, Ingrid Hannah
Mitchell, Grace Marion
Murphy, Laura Frances
McCarthy, Catherine Cecilia
McDermott, Winifred Mary
McDougall, Mary Anderson
McGregor, Helen Elmira
McKissock, Juliette Weeman
McKissock, Rowena Agnes
McLean, Kathleen Mary
McMaster, Margery Estelle
McNabb, Anna Lillian
McQuaid, Anna Gertrude
Noyes, Gertrude Theresa
O'Hearn, Ellen Frances
Osterman, Alice Alfreda
Patterson, Sarah Frances
Pendexter, Ethel Gertrude
Puffer, Bertha Ruth
Putnam, Mabel Frances
Reed, Mary Siena
Riley, Elizabeth Helen
Ryan, Nora Verecunda
Sanborn, Marion Bell
Scannell, Mary Louise
Shanley, Julia Agnes
Shedd, Lydia Helen
Silk, Harriett
Simonds, Frances Elizabeth
Spalding, Helen
Stickney, Esther Louise
Sturtevant, Beulah Augusta
Sullivan, Vera Frances
Tracy, Elizabeth Christine
Thissell, Beulah Ethel
Wedge, Ruth Paris
Whitman, Marion Mason

Barrows, Ariston Kimball
 Bartlett, Charles Bradford
 Bell, Charles William
 Bernstein, Barnet
 Brown, Harry Dunlap
 Campbell, Donald Kenneth
 Chase, Samuel Wood
 Clement, Samuel Anthony
 Concannon, Michael John
 Crowley, Joseph Leo
 Curtis, Arthur
 Dowd, Thomas Joseph
 Eastman, Roger Kimball
 Edwards, Percy Henry
 Farley, Olin Everett
 Farr, John Wesley
 Fletcher, Harold Hill
 Foisy, Edmour Napoleon
 Frawley, Thomas Patrick
 Gleason, Randolph Wyman
 Graves, John Francis
 Geary, John William
 Gumb, Irving Turple
 Haggerty, Francis Joseph
 Hazeltine, Raymond Cecil
 Heelon, Harry James
 Jones, George William
 Mather, Harold Thomas

Maxfield, Harold Arthur
 Melloon, Ralph Reid
 Miller, George Wilfred
 Morey, Douglas
 MacIver, John Donald
 McCartin, James Bartholomew
 McMillan, James Eloysius
 O'Dwyer, Joseph Edward
 Perkins, Paul Livingston
 Pilote, Charles Theophilus
 Putnam, Barry
 Raney, William Basil
 Redman, Arthur Ellsworth
 Rodger, James Yeams
 Ruitter, Claude
 Russell, Charles Edward
 Sanders, John Dinsmore
 Searle, Irwin Karsner
 Silk, Gerald Thomas
 Slattery, Edward Francis, Jr.
 Stephens, Clifford
 Swan, Russell
 Sweatt, Paul Pillsbury
 Taylor, Carl Warren
 Walsh, John Joseph
 Wheeler, Chester Eaton
 Whiting, Donald Fairfax

Three Years' Course

Best, Blanche Louise
 Blodgett, Avis Marian
 Brodie, Bernice Etta
 Brodie, Marion
 Burke, Lillian May
 Caddell, Ruth McKay
 Callahan, Minnie Belle
 Cameron, Elsie Campbell
 Cockerline, Irene Barbara
 Dunn, Anna Louise
 Flynn, Abby Louise
 Foote, Ethel Mae
 Gallagher, Helen Cecelia
 Gardner, Alice Mildred
 Gervais, Blanche Regina
 Gilman, Alma May
 Gordon, Fannie Myrtle
 Gray, Blanche Howard
 Hamilton, Leola Isabel
 Hardy, Hazel May

Knowlton, Florence Belinda
 Lundgren, Esther Hildegard
 Lynch, Elizabeth Dorothy
 Melloon, Gladys Louise
 Merrill, Madeleine Louise
 Midgley, Miriam
 McCann, Alice Dorothy
 McGrath, Bernice Mary
 O'Dwyer, Marguerite Julia
 Parkinson, Alice Maud
 Perkins, Hattie Adella
 Rhomberg, Selma Richardina
 Shanahan, Grace Agnes
 Shaw, Grace Lillian
 Shirley, Hazel Swan
 Tucke, Katharine
 Webster, Eunice Loretta
 Whitehead, Edith Isabella
 Whittier, Lillian Mae
 Wholey, Margaret Louise

Humphreys, Luella Catherine
 Israel, Rhea Jennie
 Kilroy, Mary Elizabeth
 King, Mary Fidelia

Wolfson, Ray
 Wood, Rose Mary
 Zimberg, Jennie Bennie

Barnes, Percy Roy Clark
 Bean, Winthrop Simpson
 Beaulieu, Leo Hormidas
 Birkenhead, George Joseph
 Brooks, John William Hayes
 Burden, Paul Lorraine
 Clark, Thomas Edward
 Connell, William Henry
 Coupe, James Thomas
 Donahue, Charles Augustine
 Donoghue, Richard Dennis
 Dupont, Charles Hermon
 Durkin, John Leo
 Egan, Paul Leo
 Enlind, Walfred Emanuel
 Flanagan, Leo Francis
 Gray, Roland Hilton
 Grundler, Adolph Joseph
 Hanson, Donald Francis

Hinchliffe, Thomas Pontefret
 Holdsworth, Albert Edward
 Kenney, Robert Francis
 Knight, Perley Harlow
 Lavigueur, Henry Emile
 LaVigne, Andre Joseph
 Mack, Walter Francis
 Miller, Harland Edward
 Moynahan, John Edward
 McMahon, Arthur Paul
 Nelson, Harry Waldemar
 Nutter, William Joseph
 O'Day, Edward Thomas
 Roane, Paul Joseph
 Rooney, James Henry
 Sheldon, Clarence Arland
 Sullivan, Joseph Thomas
 Tyrrell, Paul William

Carney Medals

1910

Elizabeth Irish
 Aurore Lea Gaudette
 Mary Janet Goodell

Charles Theophilus Pilote
 Joseph Leo Crowley
 Charles Edward Russell

Honorable Mention for Scholarship

Mabelle Ida Hill
 Ruth Paris Wedge
 Ingrid Hannah Miller
 Irene Barbara Cockerline

Ruby Colman Hull
 Anna Lillian McNabb
 Arthur Curtis

Honorable Mention for Attendance

The following pupils were not absent or late during their school course. Perfect attendance.

Samuel Anthony Clement

Adolph Joseph Grundler

High School Accommodations

Our high school houses are now so fully occupied that there is no room in them for new and most desirable courses, especially those industrial courses for which there is such strenuous demand. In existing courses, also, students lack some facilities for best work, facilities with which they ought to be provided. The number of students, too, is increasing steadily and rapidly, the school having more than doubled in size since it entered its present home in 1893. If, therefore, a new building were already planned the school is yet sure to be overcrowded before its new house will be built. The present building was voted early in 1891. The work of preparing the foundation began in June, yet the house could not be occupied until two years from the next October, and no plans for another can safely allow for less time. In this connection the following letter from the headmaster of the school is of great interest.

Lowell High School, Dec. 31, 1910.

Mr. A. K. Whitcomb,
Secretary of the School Committee,

Dear Sir:—

The total registration of the High school for this year is 683 girls and 572 boys an increase of 42 over the preceding year. In the Main building there are twenty rooms and in the Annex nineteen. At present all but one of these 39 rooms are occupied. For the 1255 pupils we have, excluding the special teachers and principal from consideration, 35 teachers or one

teacher for every 35 pupils. The general practice in Europe and the large cities in this country and the practice generally approved by the best authorities allows but 30 pupils to each teacher in the High school grade. This consideration of the ratio of pupils to teachers must not be confused with the proper number to be assigned to each teacher for recitation and instruction. The number that will be suitable for the best work will vary somewhat with the subject. For example, the sections assigned for manual training and laboratory work in the sciences should be smaller than in many other subjects. But it is safe to say that for maximum efficiency, with periods of 45 minutes, the number of pupils assigned for each recitation should be not more than 25. The 1255 pupils enrolled will on the average recite four times a day making a total of 5020 recitations a day to be provided for. The 35 teachers will each teach five periods a day or a total of 175 each day. Therefore the average number of pupils assigned to each teacher for each period must be 28-29 which is too many for the best teaching efficiency. It is true that some departments of the school have normal numbers but others are sadly overcrowded. Probably the next hundred pupils, in excess of these 1255, who present themselves for membership will be crowded into these two buildings, but any increase beyond that number will have to be met with increased accommodation. It is plain that plans should be made at once for the increased number of pupils that must be cared for within the next two years.

Hence the question to be decided as soon as possible is whether an additional High school should be built or the present school enlarged.

The different types of High schools may be summarized as follows:

The Commercial High school devoted entirely to instruction in the commercial branches and such additional studies as naturally have a bearing on the commercial training.

The Technical High school which usually has an extensive course in Manual Training and possibly other courses preparing for industrial work. This type of school may also prepare for the higher scientific and technical schools. In the smaller cities it usually includes the commercial course as well.

The Classical High school whose chief function is to prepare for the colleges, professional schools and normal schools.

The separate Boys' High school and the Girls' High school.

And finally the general High school which is co-educational and which includes in departmental work the courses of study usually pursued in the several special schools enumerated above. Our own school belongs to the type of the general High school.

Methods of Division Into Two Schools

Another school of the type which we already have may be built in a different location where all the courses of instruction given in the present school will be duplicated. For example, there would be duplication of the expensive manual training plant also the duplication of all the commercial equipment like typewriters, etc. It is evident that this plan involves a large initial investment as well as a cost of maintenance that a city like our own cannot well afford.

The division into two schools may follow the plan adopted in Newton and Springfield which provides a Technical and a Classical school. The technical school includes the manual training and commercial courses while the classical school does college

preparatory work and also fits for the normal school and professional schools. This arrangement would mean, in communities where the number preparing for higher institutions is comparatively small, as in Lowell, that the classical school would have small numbers for many years with comparatively high cost for maintenance, while the technical school would grow very rapidly and would soon require enlarged accommodations. To illustrate, in the city of Lynn, the number in the technical school is nearly three times that in the classical school. In the city of Cambridge, the English High school was really a commercial school. The Latin school became "the fashion" and grew rapidly while the English High school became simply a girls' school. The boys would not attend this school. The two schools have recently been combined under one head.

It is my personal opinion that if the present school is to be divided into two schools the best method would be to separate the sexes and provide a boys' and girls' school. I reach this conclusion, disregarding all the arguments for or against co-education, simply on the ground of economy. Also, very properly, a girls' and a boys' school will develop in different ways. For example, a course in domestic science would be highly desirable in a girls' school, while the kind of manual training taught in a boys' school would differ widely from the kind most useful to girls. Very few girls, for example, study Greek; this study then might be omitted in the girls' school and retained in the boys' school.

If the last plan should be adopted the question of location would become paramount. As this school must accommodate the entire Lowell territory it should be near the centre of transportation or in other words located within a short walk from the cars in Merrimack Square.

So, too, if a classical school should be built, it must be located so that it will accommodate pupils from the entire territory. Personally, however, I do not think the best interests of the city will be subserved by a division of any kind, though if a division is a necessity that into a boys' and girls' school seems to me most feasible.

The Enlargement of the Present School

The location of the present school could not be improved in respect to accessibility for all High school pupils in Lowell and the surrounding towns. It therefore seems proper to consider what may be done in the way of enlarging the present building. The sketches herewith submitted will help us in a consideration of this plan.

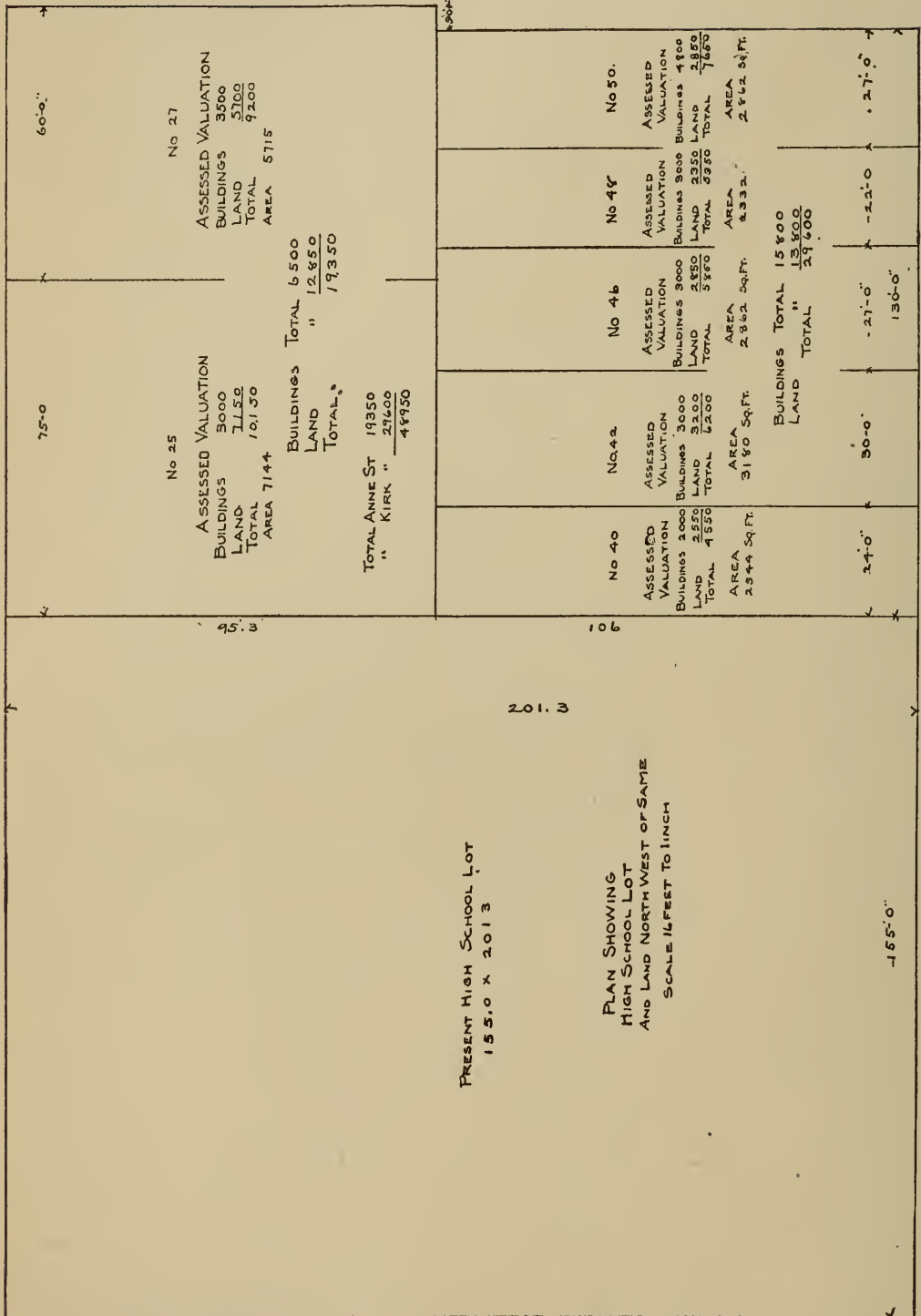
Sketch No. 1 shows the area of the present High school lot to be 31,201 sq. ft. and the area of the adjoining lots, to the north on Kirk and Anne Sts., sufficient for an addition which will fully equal the capacity of the main building, to be 26,639 sq. ft. The assessed value of these lots with the buildings included is \$48,950. Additional land was bought on the north side of the original High school lot to give space for the present building. For this purpose the city paid \$31,500 for 4500 sq. ft. in 1890.

Sketch No. 2 shows the ground floor of the present building and an addition with the connecting corridors, light shafts, and the location of the heating, lighting and power plant. This floor will provide for eight additional rooms.

Sketch No. 3 shows the second floor with four additional school rooms and the floor of an assembly hall which, with a gallery, will seat 2000 people.

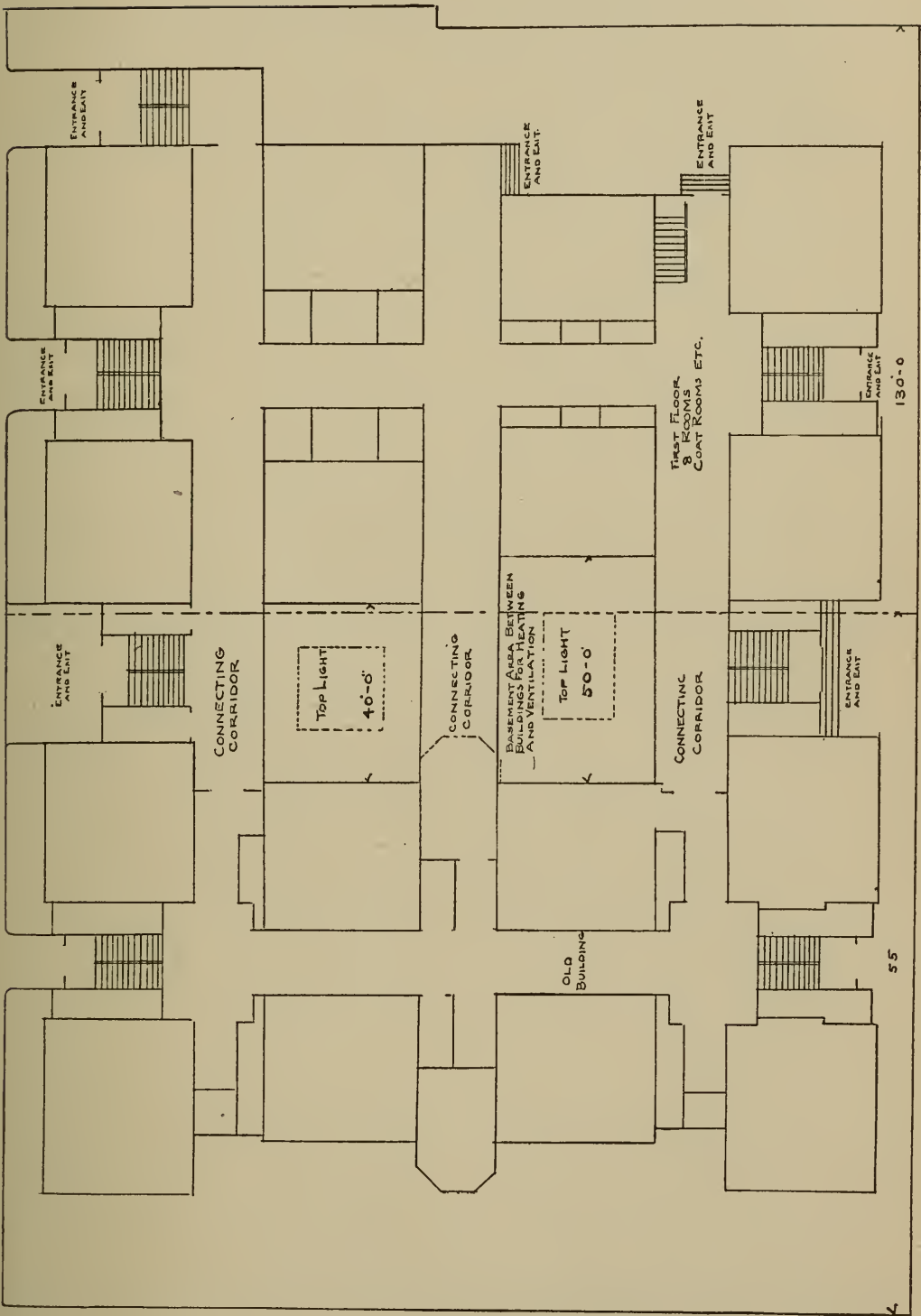
Sketch No. 4 shows four additional school rooms with the gallery of the hall referred to in No. 3.

ANNE STREET



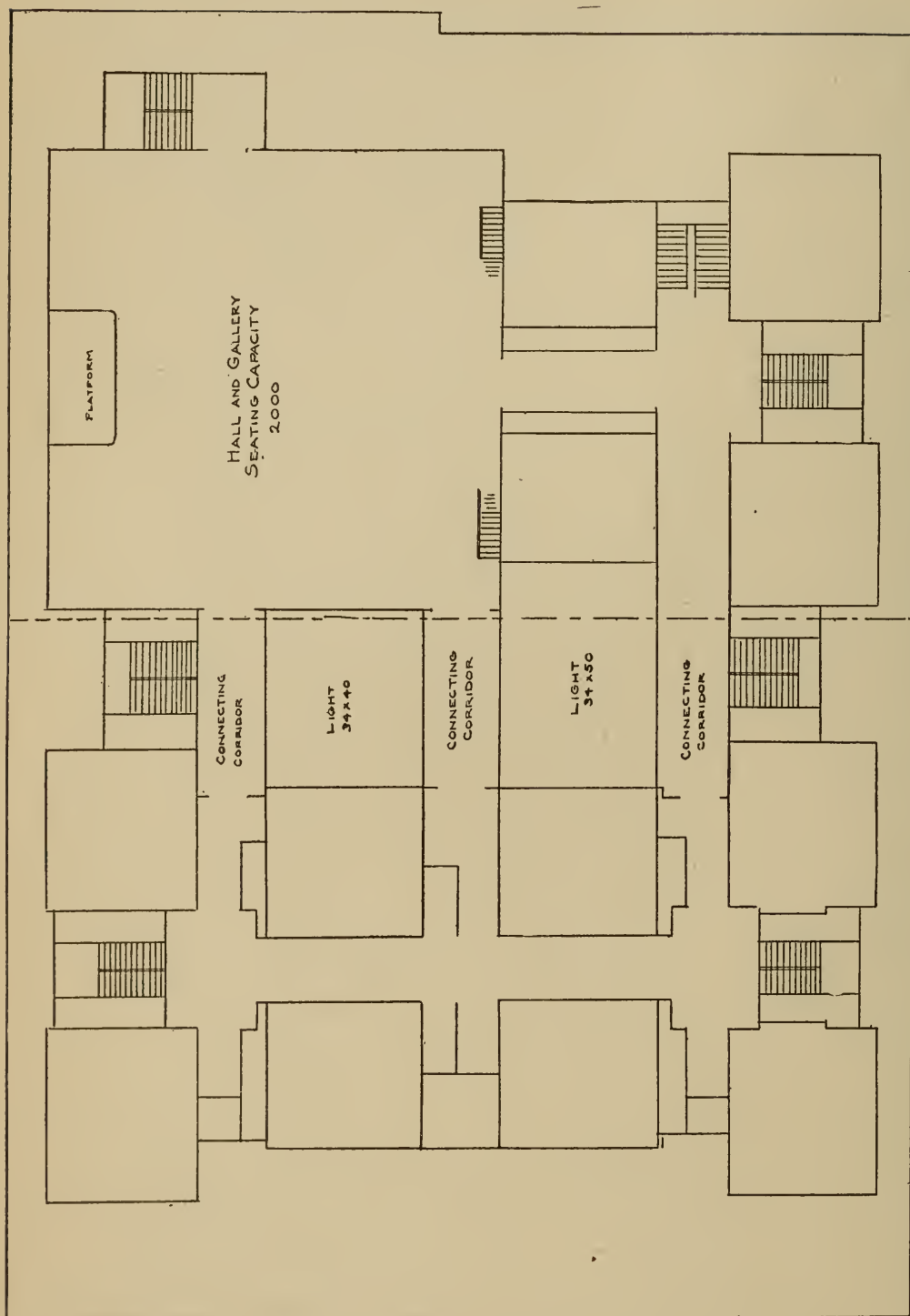
SKETCH No. I.

KIRK STREET



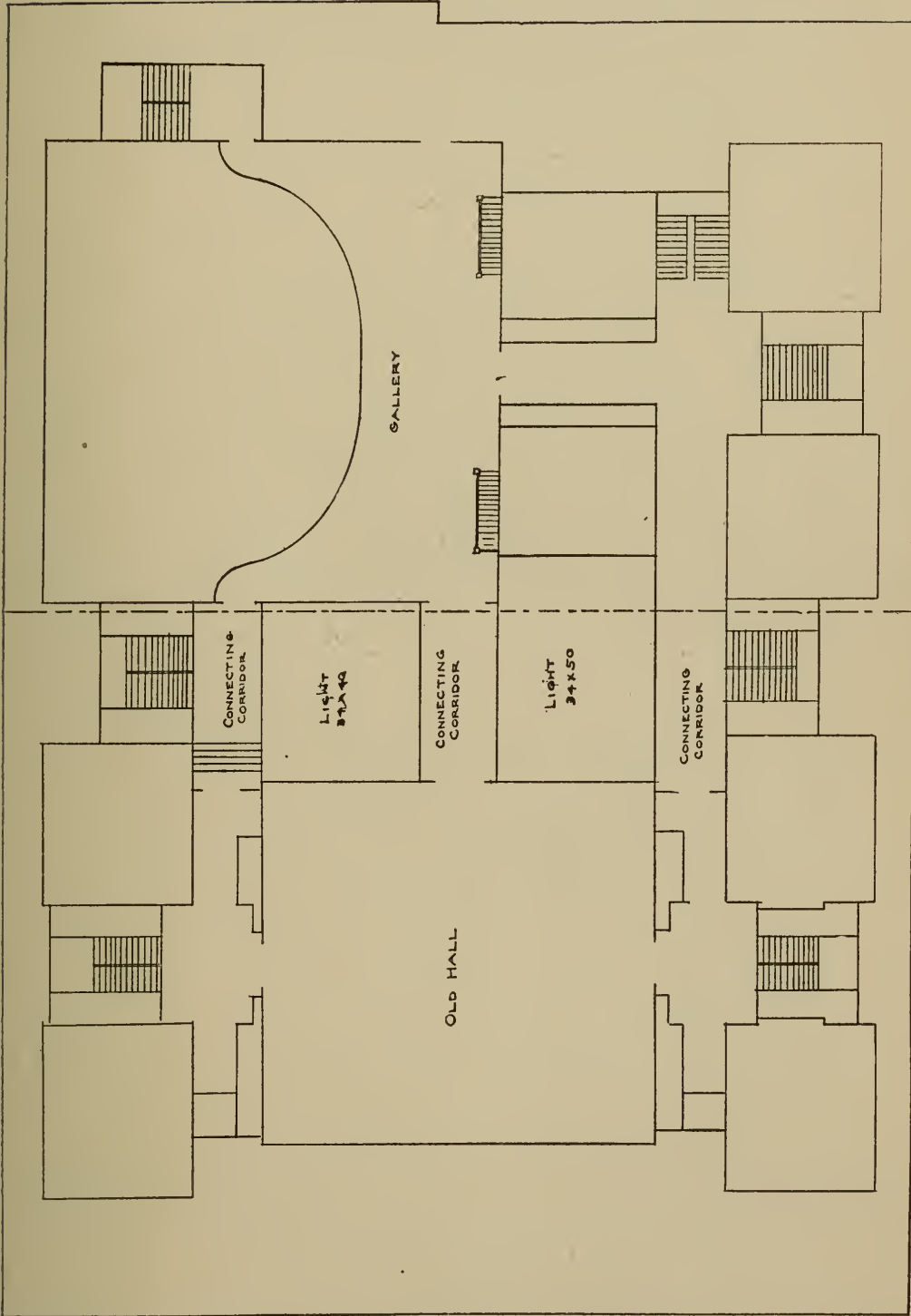
FIRST FLOOR PLAN EIGHT ROOMS

SKETCH No. 2.



SKETCH No. 3.

SECOND FLOOR PLAN FOUR ROOMS AND HALL



THIRD FLOOR PLAN
SCALE 1/8" = 1'-0"

SKETCH No. 4.

We have here sixteen additional school rooms which will seat 800 pupils and, with the present plant, will provide for 2000 to 2200 pupils and an assembly hall large enough to seat the entire school with a maximum number.

Probable Cost

The only way in which we can get a clear conception of what the cost of building and equipment of this addition, or the building and equipment of a new High school, should be, is to turn to the experience of other cities which have recently built High school buildings.

For purposes of comparison a table has been prepared showing the investment made in several cities for equipment and building for each pupil accommodated.

SCHOOL	Cost for building and equipment for each pupil accommodated
Charlestown High	\$501.50
Girls Latin (Boston)	495.00
So. Boston High	542.00
East Boston High	432.30
Springfield Technical High	348.87
Newton Technical High	500.00
Syracuse, N. Y. High	348.00
Brockton High	260.00
New Bedford High	523.00
Salem High	475.00
Lawrence High	238.00
Haverhill High	388.88
Rochester, N. Y. High	370.00
Average	\$417.00
Lowell High and Annex	\$205.80
Lowell High, built 1892, cost	\$171,348.00
Annex, built 1900, cost	87,000.00
Total, equipped	\$258,348.00

This investment of \$205.80 for each High school pupils as compared with an average investment of \$417.00 in thirteen other cities is very striking. It

indicates the greatest economy on the part of those officials who had to do with the construction of these buildings and also that the school authorities are utilizing the whole plant to its maximum capacity.

It is very doubtful if such a low cost of construction can be duplicated today and it will be safer to draw our inferences from the more recent experience of other cities. Applying the average investment per pupil of \$417.00 in other places to this proposed addition we shall have a total cost of \$333,600 for equipment and building for the 800 additional pupils to be accommodated. There are certain features of economy in regard to this addition that will make it less expensive than the construction of a new High school accommodating 800, and the cost should not go above \$250,000 for building and equipment which, with the land, will make a total of about \$300,000.

Arguments for Addition

One large school is more economically maintained than two or three small schools. Greater opportunity for the individual is offered in a large school with many courses.

The present location is the best possible in respect to accessibility. It is the best possible location for the evening High school. The new Anne Street Park adds to the attractiveness of location. The location is sufficiently far removed from the main street to be quiet.

Under this plan, we could replace the present heating and ventilating plant, which is not only inefficient but very expensive to operate, by an economical and up-to-date system. We could have our own power and lighting plant. We would have a hall large enough to assemble the entire school,

also a place for our graduation exercises, and finally additional courses of study, including the domestic arts and sciences and freehand drawing and designing.

Respectfully submitted,

Cyrus W. Irish,
Headmaster High School.

With every conclusion of this letter I am in hearty accord. Large cities, like Boston or New York, may well have High schools of several different kinds, or several of the same kind, but for cities the size of Lowell and situated as Lowell is as regards transportation, there is no question at all that economy and efficiency will both be subserved by a single school. And this will still be true when Lowell has doubled its present population. The building for which Mr. Irish asks may then be faced by one as large, or larger, on the other side of Kirk street, but the school should be still be one, and its present location will still be the ideal place for the school of the future as it is for the one of the present.

This proposal of Mr. Irish will be presented to the school committee early in January, and I predict a unanimous acceptance of it. A request to the city council to take early and favorable action is then probable, after which the matter must rest with the city fathers and the public.

Selection of Teachers

In the early days of Lowell's schools, teachers were hired by the school committee at the discretion of its members. Committees in those days were always composed of leading citizens. They were all superintendents. They studied educational theory and practice. They visited much, and were educational experts. Their selection of teachers was conscientious, and generally with excellent judgment. When these men, therefore, employed a superintendent to do the detail work which had become too burdensome for them it is not probable that the thought of entrusting to this new officer the duty of selecting and discharging teachers ever occurred to them. Certainly they kept these duties wholly in their own hands.

As the years went by, however, and committees visited less and gave less attention to school work, there grew up objections to personal appointments. Whatever members may have thought of themselves, the public ceased to think of them as experts. In time, too, scandals were whispered though never proved, and it was asserted that to other unworthy reasons for appointments cold cash was sometimes added. The situation became intolerable, and the best men in the school committee were solicitous to find a remedy. The problem was to find a way to take appointments wholly out of the hands of individuals, or even of the committee as a whole, and to make tested merit the sole condition of preferment. The solution decided upon was the establishment of

a test school in which candidates should be given a trial under expert supervision and observation. If they did well, in the opinion of their critics, they were to have positions as positions opened; if they did not do well they were graciously given leave to withdraw. With the decisions of the paid experts, the principal and critic teachers of the school, the school committee tacitly promised never to interfere, a promise which was well kept. The system then adopted was known as the "merit system," and since its acceptance in 1888 the committee, as individuals and as a whole, has voluntarily relinquished every shred of anything that savors of patronage so far as the day schools are concerned.

The Training school, as the new school was called, was opened in the face of bitter opposition, and never afterwards lacked for enemies. Entrance to it was by examination. As only a limited number of applicants, about a dozen a year, could be received, from fifty to seventy-five per cent. of those who took the examination failed, and they, and their friends, felt that the school was the one thing which stood in the way of their employment. In the first years of the school one-half of those who entered were refused graduation, and they, too, were bitter. In later years the training feature of the school was emphasized more than at first, and many who would otherwise have failed were helped to success. Some of these have since done grand work as teachers, and the help given them at the Training school was a fine thing for them and for the city. Some others, however, who barely squeezed through the school, did

less well after leaving it, and masters, principals and the public, asked what could be the use of a school which turned out such a product. Outside influences also had their effect, and opposition gradually increased. For the last five years there were not lacking those in the school committee who were opposed to the school or were lukewarm in its support, but still stood by it because they saw nothing better to take its place. This something better the committee of 1910 believes that it has found, and the school was, therefore, closed.

In making a change the committee took no backward step, either as regards their own position on the patronage question, or as regards the scholastic and professional training of those who are to be accepted as teachers. Applicants must still be graduates of a college or normal school, as before. The year's experience in the Training school is replaced with a requirement of not less than one year's experience in some other school outside the city. For the opinion of the teachers of the Training school is substituted the judgment of a board of supervisors composed of masters of grammar schools. And, finally, when the candidate has run the gauntlet of all these conditions, the ranks are to be reduced to the number needed by the city by an examination which is practically competitive in that those of highest rank are to be accepted.

In accordance with the new rules a public notice was given in October that applications would be received until November 15. At that date sixty-two

candidates had applied. To these a circular of information was sent, with a blank to be filled out by the candidate. Some applicants proved ineligible, for one reason or another, but forty-eight were adjudged eligible by the board of supervisors. Three masters were assigned to visit each of them, and those endorsed by the masters, if more than fifteen, (the number to be accepted next year) will take an examination June 3, 1911. The fifteen attaining the highest rank will be given positions in the public schools as permanent substitutes for one year, or until a permanent position shall open.

The rules of the school committee on this subject, and the circular of information prepared by the board of supervisors, follow:

RULES OF THE SCHOOL COMMITTEE

CHAPTER 2, SECT. II. A board of supervisors, consisting of eight grammar masters together with the head master of the high school, whose tenure of office shall be permanent, is hereby organized by the school board.

CHAPTER 4, SECT. 40. About October 1st of each year, the superintendent shall issue a public advertisement, announcing that during the first week of the June next following a public examination of applicants for Lowell teachers' certificates of the third grade will be held in Lowell, and stating the number of applicants likely to be chosen. Persons to be eligible to take these examinations must be graduates of normal schools or colleges, must have had at least one year's successful experience in teaching, attested to in writing by the superintendent under whom they have worked, said attest to be presented at the time of taking the examination. All applicants must signify their intention of taking the examination by notifying the superintendent of schools in writing by November 15th next following the issuance of the public notice, at which time the list will be closed and no new names added.

SECT. 41. The superintendent of schools shall assign to each member of the board of supervisors a partial list of names of the applicants. It shall then be the duty of each member of the board of supervisors to visit each of the applicants assigned to him and report in writing to the superintendent the result of such visit. No applicant, whatever be her qualification, shall be admitted to examination whom the visiting members of the board find inefficient or unworthy.

SECT. 42. The examination shall be conducted by the superintendent of schools and the board of supervisors. All questions for these examinations shall be prepared by some school department other than that of Lowell, and the papers of applicants, indented by number only—not by name—shall be sent by mail or express to the framers of the questions for correction, and they shall later return the corrected papers with the list of numbers arranged in order, beginning with the highest and going to the lowest.

SECT. 43. The successful candidates having been chosen, they shall be assigned to certain of the grammar and primary schools—to be changed from time to time—as permanent substitutes for one year, where they will work under the observation of the various members of the board of supervisors, who will be able to determine during that time with reasonable accuracy their exact fitness for filling vacancies that may occur.

SECT. 44. After one year's successful service as permanent substitutes, the applicants shall go on the regular reserve list of teachers and a new class, larger or smaller according to the desire of the school committee, shall be chosen to take their places.

SECT. 45. (a) In the event of a vacancy, the master in whose district it occurs shall name the most available person, in his judgment, from the reserve list to fill that particular vacancy and, subject to the vote of the board of supervisors, she shall be recommended to the school committee for immediate election.

(b) All graduates of the Lowell Training school shall preserve their standing and shall be given employment before anyone holding a Lowell teacher's certificate under the above plan.

CIRCULAR OF INFORMATION

An examination of applicants for positions as teachers in the grammar and primary schools of Lowell will be held in the high school building, in that city, on Saturday, June 3, 1911, and will include the following subjects: Grammar and language, arithmetic, American history, including civil government, and the principles of teaching.

Applicants must be graduates of normal schools or colleges, and must have had at least one year's successful experience in teaching, attested to in writing by the superintendent under whom they may have worked, said attest to be presented at the time of taking the examination.

Applicants must signify their intention of taking the examination by notifying the superintendent of the Lowell schools not later than Nov. 15, 1910, at which time the list will be closed.

At some time previous to the date of this examination each applicant will be visited by one or more members of the board of supervisors, and no applicant shall be admitted to examination whom the visiting members of the board find to be inefficient or unworthy.

The successful candidates will be assigned to certain of the grammar or primary schools, to be changed from time to time, as permanent substitutes for one year, where they will work under the observation of the different members of the board of supervisors, who will be able to determine, during that time, their fitness for filling vacancies that may occur.

After one year's successful service as permanent substitute, the applicant will be placed on the regular reserve list of teachers.

In the event of a vacancy, the master in whose district it occurs shall name the most available person, in his judgment, from the reserve list to fill such vacancy, and, subject to the votes of the board of supervisors, she shall be recommended to the school committee for immediate election.

According to the rules of the school committee now in force, each person holding a certificate will receive \$2.50 for each day of actual service, previous to her election, after which she will receive \$650 a year for the first ten years of service, and \$700 a year thereafter.

Certificates will not be given to more than fifteen of those candidates taking the examination in June, 1911.

Lowell, Mass., October 14, 1910.

Arithmetic 1881 and 1910

The questions used in ninth grade examinations in 1881 were used again with the same grade in 1910, but conditions prevent any accurate comparison. In 1881 only those took the examination who were certified by masters as probably qualified for the High school; in 1910 some took it who were not expected to attain promotion rank. In 1910, too, masters excused from the examination those pupils who had attained a rank of eighty per cent. in daily work through the year, so that the best scholars had no share in the test nor in the average rank. Then the examination itself contained some problems of a kind which would not now be given, thus placing those who took it this year at a very considerable disadvantage. With the best scholars excused, and with some non-recommended ones included, and in the face of the handicap of unfamiliar forms and of some problems not now thought desirable, the average of those who took the examination in 1910 was but two per cent. less than in 1881.

A careful examination of the conditions justifies the assertion that in a test on equal terms the ninth grade pupils in 1910 would attain a rank at least fifteen per cent. greater than the class of 1881.

Medical Supervision

The work of school physicians, which was inaugurated under such favorable auspices in 1909, has been continued through the year. Results have been so good that the city council, which had refused an appropriation for the public schools as long as it had the power to withhold it, has this year extended medical supervision to the parochial schools with never a murmur of opposition. The work in the parochial schools is done under the direction of the board of health.

The school committee employs nine physicians, and a helper whose business it is to persuade parents to give their children the care advised by the physician. Each school is visited once each week, and oftener on the call of the teacher or in case of an epidemic or other emergency. Once each year, preferably early in the first term, each child is examined separately; on other visits the physician sometimes inspects rooms, but usually he only sees those pupils who are referred to him by teachers. In this way the nine physicians have made 1315 visits in 1910, have examined 10,329 pupils, have advised treatment in 1935 cases, and have excluded 319 pupils. Most exclusions were for temporary causes, and the excluded child was generally able to return in a few

days. Teachers are encouraged to present all cases of doubt, the doctors preferring to examine a dozen children who are all right rather than miss one who needs attention. This accounts for the fact that less than one in five of those examined needed treatment. To know, however, that a child does not have a suspected disease is sometimes as important as to know that he does have it, and results apparently negative are often of great value.

The ills for which treatment was recommended were very numerous. Some were for unusual and unexpected causes like broken bones, hernia, ivy poisoning, etc., and there were more than a score of cases of septic poisoning, some of them quite serious. There were also a few cases of constitutional disease like asthma, disease of the liver, etc., but more than one-half of all cases were diseases of the throat and nose. Of hypertrophied tonsils there were 721 cases, of adenoids 329, of tonsilitis 6, and of bronchitis, laryngitis, pharyngitis, etc., no less than 20. Vision and hearing were tested by teachers as usual, under state law, and the notices provided by the state were sent to parents in large numbers, as will be reported in its proper place. The physicians were thus saved much work on eyes and ears, but their advice was so often asked on difficult or doubtful cases that they advised treatment of eyes in 209 cases, and treatment of ears in 99. The eye cases included 23 of conjunctivitis, and the ear cases a dozen of mastoiditis or purulent discharge, and 23 of indurated cerumen. Diseases of the skin were fairly numerous. Of impetigo there were 88, of eczema 15, and of scabies 8.

Chorea and epilepsy were less common than was expected, five cases of the former and only one of the latter. Measles and whooping cough were epidemic during much of the year, but they were so cared for by teachers that the doctors had little to do with them. Of tuberculosis ten cases were reported. Of scarlet fever no case was found and of diphtheria but 2.

For diagnosis and suggestion the credit is due the physician, but for securing treatments the credit is due the teachers and their assistant, Miss French. Last year they reported so many treatments that errors were feared in some cases. This year great precaution has been observed to avoid mistake. A duplicate of each physician's card has been kept, and this card has been transferred to a different envelope only after the teacher has been made sure that the child had actually received treatment as recommended. Carelessness might prevent a duplicate from being kept or transferred, thus making the number of treatments reported too small, but it is practically impossible that it should be too large. When, therefore, teachers report 1104 treatments it is a record very greatly to their credit. In this respect, though, schools differ greatly. Some report almost as many treatments as recommendations; one reports 50 recommendations without a single treatment.

Of the more serious or immediately pressing cases all, or nearly all, were cared for, of course. Such was the result, naturally, with the two cases of diphtheria, with nine of the ten cases of tuberculosis,

with all of the eight cases of scabies and all of the five cases of chorea. Almost all of the 88 cases of impetigo were cured, as were nearly all the 465 cases of pediculosis. The most common diseases, though, those of the throat, are the most difficult for which to secure attention, partly because there appears to be no occasion for haste, and partly because an operation is required, usually at a hospital. Not all throat diseases, therefore, have been treated, yet here as much as anywhere does the work and influence of the teachers redound to their credit. Of enlarged tonsils 175 have been treated, generally by removal, and of adenoids 88. In cases of eye trouble action has been secured in 65 cases, and in 24 cases of disease of the ear, these cases being in addition to those secured in connection with the notices required by the state.

Of teeth no general examination is made, but the doctors, while looking at the mouth or throat for other purposes, noted 107 cases which were so very bad as to cause them to advise treatment. So far as is known to teachers this advice was followed in but 22 cases.

Much emphasis is now being placed by physicians on the possibility, and in some cases the certainty, that much sickness is caused by swallowing poisonous matter from decaying teeth, some going so far as to say that a majority of the illnesses of children and youth are due to this cause. From 80 to 90 per cent. of children of school age are said to have teeth which need attention, and great harm undoubtedly

follows lack of care. The increased interest in this subject has caused examinations to be made and free dental clinics to be established in many cities. Milwaukee claims the honor of being the first city to employ a dentist to examine the teeth of all school children at stated intervals, and to provide a free dental clinic. Other cities, however, are having the work done by the school physicians, and claim excellent results. In Rochester, N. Y., a dental society provides service, sellers of dental supplies gave equipment, public spirited citizens pay the rent of a room, and children too poor to go elsewhere are cared for without expense to themselves. The dental society of Lowell has been ready for two years to do its part of the same work here, and it only remains for someone to provide a room and equipment, and a free dental clinic will be a reality.

In this connection it may be of interest to note that teachers have been making a special effort this year to secure a more general use of the tooth brush, with such success that the number of children who do not claim to own and use a brush is comparatively small.

While most health work has been done by teachers Miss French has been an efficient helper, and has been able to visit homes and do hospital work which would have been impossible for anyone else. She has secured treatment at hospitals or of physicians for 64 children, of whom 24 had adenoids or enlarged tonsils, 16 had eye trouble, 12 had ear diseases, three were tuberculous, and two had hip disease.

The last were treated at the Massachusetts General Hospital in Boston, and both bid fair to entirely recover the ability to walk. Sixteen other children were taken to hospitals or to doctors for examination, and promises of action needed by a child were secured from 98 parents. Fifty-one children were taken for examination for glasses, and all those who were found to need them have been supplied free if unable to purchase for themselves. She has taken crude petroleum to 14 families, and has herself treated, at school or at home, 213 children for pediculosis and 13 for impetigo. She has secured the admission of one deaf child to the school for the deaf in Beverly, and has the promise of early acceptance in 1911 of two tuberculous children at the state sanitarium at North Reading. In addition to cases referred to her by the physicians she also found 15 cases needing treatment in homes she was visiting, and took them all to hospitals or physicians.

The teachers and Miss French agree that the work already done has not only benefitted many children, but that it has noticeably improved general conditions. Parents are giving better and more intelligent care in many cases, and some minor and easily curable ills have been greatly reduced if not entirely eradicated. No case of impetigo is now known, and the same is true of several other skin diseases. Only three children with pediculosis are known to Miss French at the end of the year, and one of these is being cleaned up by her each week, though only to be reinfected at home.

Sight and Hearing Tests

The tests of sight and hearing required by state law were taken by teachers in the fall term, one grammar school failing to report, as was the case with the same school last year. Results were as follows:

	Pupils Exam- ined	Defective in Seeing	Per Cent. Defective	Defective in Hearing	Per Cent. Defective	Parents Noti- fied
Primary Schools	4801	367	8	114	2	310
Grammar Schools	4723	496	10	163	3	455
High School	1255	264	21	55	4	157
Totals	10,779	1127	10	332	3	922

In 1909 defects of vision were 1711. This year they are 1127. The apparent improvement is probably real to some extent, but is mainly due to a change of basis in reckoning. By latest directions of the state board of education, children having more than one-half normal vision are not recorded as defective. Last year two-thirds was the basis of division. Children wearing glasses, who were classed as defective last year, are tested with the glasses this year, and if found normal are so recorded.

In hearing, there has been a noticeable improvement, a total of five per cent. defective last year being reduced to three per cent. this year. Defects of both kinds were 1459. But 922 notices were sent, a fact that indicates that the parents of the other 537 pupils were already aware of the needs of their children, and were giving them the attention demanded by their condition. That there should be 922 parents either unaware or indifferent is proof of the need of a continued campaign of education.

Teachers report 264 treatments of eyes, including the supply of glasses, and 85 treatments of ears, due to their examinations, to notices provided by the state and to their efforts and the efforts of Miss French in connection therewith. This is in addition to the 65 treatments of eyes and the 24 treatments of ears which were advised by the school physicians. These figures were obtained in response to a request of the state board of education, which desired to know whether the tests required by statute are doing any good. They would seem to be conclusive.

School Savings Banks

As was stated last year, the experiment of a school savings bank was first tried in Lowell at the Varnum school in November, 1908. It was immediately successful and popular. About three-fifths of the children became depositors, and nearly one-half were in the possession of regular bank books, the reward of a deposit of one dollar or more, by the end of 1909. Deposits at this time amounted to \$1973.35 despite the fact that graduates who went to the high school in September took with them deposits to the amount of \$491.52. The work of collecting and handling the money was done by the master and the teachers, but deposits were at the Central Savings Bank.

The work of the first year was so successful, and the outlook for business in the future was so hopeful, that two savings banks, the Central Savings

Bank and the Five Cent Savings Bank, offered to do all the collecting for schools which would inaugurate the system. This relieved teachers of both work and responsibility at the same time that it made the scheme simpler and more business-like. The public evidently approved. The Middlesex Women's Club added some persuasion to official endorsement. The idea became popular, and in 1910 nine grammar and two primary schools opened their doors to the banks. Another, the Edson, is to join their ranks early in 1911.

To carry on the work the bank sends a representative to each school once each week. Depositors are furnished with a card on which each week's deposit is noted opposite the date. This card serves as a receipt, and shows each deposit, and the amount of all deposits, at any time. The bank man sits at a table in some convenient room or corridor. Pupils who have deposits to make are excused for a minute from their place in the class room, and go in line to the table which takes the place of the counter at the bank. With the amount to be deposited each child presents a slip of paper on which his, or her, name is written, with the amount of the deposit. The clerk verifies the count, and enters the amount on the child's card, retaining the deposit slip. The whole transaction takes but a few seconds, and the child is back in school with very small loss of time. The Five Cent Savings Bank gives a bank book for a deposit no matter how small. The Central Savings Bank only makes out a bank book when

deposits amount to one dollar or more. At either bank the holder of a book is a regular depositor on a basis exactly the same as that of the adult who deposits the largest amount permitted by the rules, except that, at the Central, an order from the parent must be presented before money can be withdrawn.

The schools which receive deposits are the Var-num, Highland, Lincoln, Moody, Butler, Green, Pawtucket, Laura Lee and Tenth street, which deposit at the Central, and the Colburn, Greenhalge and Riverside which deposit at the Five Cent. The date of opening, the number of depositors December 31, the number having bank books, and the total deposits on the same date, are as follows:

	Date of Opening	Depositors	Bank Books	Deposits
Varnum	Nov. 1908	352	298	\$3259.57
Moody	Jan. 1910	306	209	1132.56
Pawtucket	Jan. 1910	151	119	561.72
Colburn	Jan. 1910	281	281	330.61
Riverside	Jan. 1910	131	131	226.00
Highland	Feb. 1910	258	211	1357.11
Greenhalge	Feb. 1910	265	265	1317.55
Laura Lee	Sept. 1910	42	19	59.80
Tenth St.	Sept. 1910	146	60	177.49
Green	Oct. 1910	186	67	265.23
Lincoln	Nov. 1910	143	66	163.01
Butler	Nov. 1910	224	54	161.91
Totals		2485	1780	\$9012.56

The legislature of 1910 deemed thrift a subject important enough to find a place in the curriculum of the schools of the state, and so made its teaching compulsory. Teachers have always taught thrift, of course, as they have taught all other civic virtues, directly as occasion offered though more often indirectly and by example. The most of them have

found no way to teach it better this year than heretofore, but those who have opened their doors to the school savings bank have certainly found a new way, and one so good that nothing better has ever been suggested. Of those who deposit at all very few discontinue, and amounts withdrawn are very small. In nine of the twelve schools only 42 depositors withdrew in 1910, and cash withdrawals were less than one hundred dollars. Inquiry shows that pupils going from the grammar schools to the high school, or to work, generally continue their deposits at the banks, and the lesson of thrift learned in the schools will doubtless have its influence for good through the whole life of most depositors.

The services of the savings banks in this matter can scarcely be over-rated, and they deserve the gratitude of the public. Their work is now done at large expense, and if it shall result in very greatly increasing their number of adult depositors in the future the reward will have been well earned.

Evening Schools

The only compulsory pupils for evening schools since the revision of school and labor laws two years ago are those between sixteen and eighteen years of age who are unable to read and write in English. Naturally the number in this class is small, and happily it is steadily growing smaller. Pupils who attend from choice remain about the same in point of numbers, but compulsory pupils are fewer, and the elementary schools are smaller.

The High school, on the other hand, continues to increase in numbers and in interest. The addition of a score of new typewriters to its equipment has been a much needed relief to the commercial department, and this is larger than ever before. Some courses for civil service examinations were opened this year, and have been well attended by those to whom they must necessarily be a direct benefit.

In the term of 1909-10 the high school had 75 sessions, the modeling class at the evening drawing school had 74, the other classes at the evening drawing schools had 40 sessions each, or 80 in all, and the elementary schools had 67 sessions, four sessions having been omitted because of stormy weather.

Graduation exercises of the evening high school were held in high school hall March 22, 1910. The address was by Hon. Joseph H. Walker, Speaker Massachusetts House of Representatives; a class picture was presented by Wm. Francis Ryan, president of the graduating class, and was accepted by Mr. Edmund T. Simpson, chairman of the evening school committee, and diplomas were given to 83 graduates by Mayor Meehan.

Statistics of the last completed term of all the evening and evening drawing schools, with names of graduates, are as follows:

SUMMARY OF EVENING SCHOOL ATTENDANCE.

For Term of 1909-1910.

SCHOOLS	Number of Rooms in each School	Teachers at beginning of Term	Teachers at close of term	WHOLE NUMBER ON TIME BOOKS			AVERAGE NUMBER BELONGING			AVERAGE ATTENDANCE			Per cent of Attendance	Graduates	Minors unable to read and write
				Males	Females	Total	Males	Females	Total	Males	Females	Total			
High School	31	30	28	628	494	1122	334	282	616	308	261	569	83	83	
Bartlett.....	8	14	8		199	199		127	127		115	115	90	6	21
Butler	6	6	3	118	41	159	47	18	65	35	14	49	77		3
Colburn.....	6	8	8	163	55	218	95	37	132	70	30	100	79	6	20
Cheever St...	2	5	4		78	78		48	48		45	45	94		56
Edson.....	6	7	6	125	56	181	61	43	104	49	39	88	85	8	115
Franklin.....	5	8	4	123	25	148	90	20	110	63	16	79	72	5	4
Green	5	9	4	251		251	95		95	90		90	95	2	116
Greenhalge ..	2	4	2	82	32	114	42	18	60	26	16	42	70	7	24
Mann.....	11	30	15	470		470	310		310	243		243	78		154
Old Moody..	4	7	4	73	61	134	37	34	71	31	29	60	84	12	90
Mdsx. Vill. ..	1	2	1	28	18	46	63	37	100	50	32	82	81		
Riverside.....	2	3	1	66	19	85	24	7	31	15	6	21	67		2
Worthen St.	4	10	6	180		180	117		117	87		87	74		66
Totals	93	143	94	2307	1078	3385	1315	671	1986	1067	603	1670	80	129	671

EVENING HIGH SCHOOL GRADUATES, 1910

Regular Course

Anderson, James Keir
 Barrett, Frederick Joseph
 Boland, Thomas Henry
 Bowers, George William
 Breen, David Francis
 Burrows, George Edward
 Connors, Joseph A.
 Coppens, Caesar
 Corfield, John William
 Cull, Arthur Thomas
 Curran, Charles Francis
 Custer, Raymond Gerald
 Dailey, George Edward
 Depocher, Albert Francis
 Doyle, John Basil
 Flanders, George Arthur
 Flannery, Edward Joseph
 Ginivan, John Joseph
 Gilchrist, John
 Gilchrist, Joseph
 Grant, James Alexander
 Harley, Joseph James
 Higgins, Thomas
 Innis, George Edward
 Kiernan, Patrick Francis
 Knowles, James Myron
 Lalime, Elphege Azarie
 Lessard, George
 Lyones, Samuel
 Maguire, Herbert Leo
 McEvoy, James William
 McGrath, Redmond Joseph
 McMahon, Joseph Henry
 O'Neil, John Edward
 Ohlson, John Victor
 Owens, Patrick John
 Perry, William
 Reynolds, Charles Francis
 Ryan, William Francis
 Santos, Manuel
 Stewart, George Francis
 Teague, Thomas Leo

Tobin, Thomas Francis
 Tucke, Edward David, Jr.
 Ward, Leo Paul
 Welch, James Alexander
 Wrenn, Daniel Joseph
 Barry, Eva Mae
 Burke, Theresa Gertrude
 Cantin, Mary Elizabeth
 Chouinard, Blanche I.
 Collins, Helen C.
 Coyne, Alice Gertrude
 Curtin, Helen Louise
 Delaney, Mary Louise
 Dorris, Margaret Esther
 Dowling, Mary Theresa
 Dozois, Alice Bernadette
 Dulligan, Elizabeth Agnes
 Gillis, Mary Loretta
 Gildee, Mary Etta
 Gordon, Yetta
 Hillery, Mary Elizabeth
 Johnson, Alma Elvira
 Johnson, Thora Ebba
 Kelley, Katherine Veronica
 King, Katherine Mary
 Levasseur, Marie Jeanne
 Mulligan, Catherine Cecila
 Murphy, Mary Verecunda
 McCord, Mary Graham
 O'Brien, Hannah Mary
 Perlman, Rose
 Paterson, Lucie D.
 Reynolds, Josephine Elizabeth
 Reynolds, Katherine Louise
 Ringwood, Mary Frances
 Sabourin, Grace Marie
 Shaw, Martha Alice
 Sheehan, Lena Verna
 Shyne, Loretta Alice
 Sullivan, Rose Veronica
 Tully, Mary Lillian

Stenography Course

Custer, James John
 Lorrain, Joseph Andrew
 Ward, John Joseph
 Alexander, Ida Blanche

Kneafsey, Teresia Regenetete
 O'Neil, Agnes Elizabeth
 McInerney, Nora Teresa
 Reynolds, Flossie Jane

EVENING DRAWING SCHOOL

Term of 1909-1910

CLASSES	ROOMS	Teachers at opening of Term		Teachers at close of Term		WHOLE NUMBER ON TIME BOOKS			AVERAGE NUMBER BELONGING			AVERAGE ATTENDANCE			Per cent of Attendance
						Males	Females	Total	Males	Females	Total	Males	Females	Total	
Mechanical ..	3	8	8	109		109		109	87		87	73		73	84
Architectur'l	1	3	3	48		48		48	38		38	27		27	71
Free-Hand...	2	3	2	76	19	95		95	20	9	29	15	6	21	73
Design.....	1	1	1		52	52		52		25	25		20	20	78
Modeling	1	1	1	14	8	22		22	12	8	20	10	5	15	75
China P'ntg	1	1	1		33	33		33		26	26		20	20	76
Totals	9	17	16	247	112	359		359	157	68	225	125	51	176	76

EVENING DRAWING SCHOOL GRADUATES 1910

MACHINE CLASS

Everett Ronald Mountain
 William Harrall
 Andrew John Monahan
 John Leontius Lockberg
 James Daly
 Harry Franklin Davis
 Albert Edward Silcox
 Hans Mauritz Hansen
 Cust Obst Odel
 William Henry Ryan
 Thomas Lane

MODELING

Herbert Thomas Walker

FREE-HAND

John Joseph Drumm
 Clarence Rufus Flood
 Max Goldman

ARCHITECTURAL CLASS

Percy Henry Edwards
 Irving Turple Gumb
 Frank Guy Hillman
 John Robert Hillman
 Ernest Frederick Pratt
 Charles Joseph Rodgers
 Frank Robert McGowan

No School Bell

Schools were closed three and one-half days on account of stormy weather in the school year of 1909-10, and four days in the calendar year 1910. This record is exactly the same as that in the report for 1909. Whether these days were too many or too few is for the public to decide.

In closing the record for another year I desire to express again my high appreciation of the ability and fidelity of teachers, truant commissioners, and all persons with whom I have been associated, and of the courtesy and kindness with which I have been treated. To the school committee as a whole and as individuals I return thanks for assistance and support.

Respectfully submitted,

Arthur K. Whitcomb,
Superintendent of Schools.

REPORT OF THE TRUANT COMMISSIONERS FOR THE YEAR 1910.

	Total number cases investigated	Absentees	Truants	Wandering about the streets	Visited second time	Visited third time	Violating the rules of school	Arrested	Sent to the Middlesex County Training School.	Placed on probation	Prosecution of Parents	Working certificates issued—(14 to 16 yrs. of age)	Working certificates approved—over 16 yrs. of age
January.....	245	229	16	28	25	3	0	1	1	0	0	74	18
February	281	255	26	37	27	3	0	6	6	0	0	110	24
March	392	356	36	58	30	4	0	2	0	2	0	128	36
April.....	248	202	46	45	21	1	0	5	5	0	0	107	22
May.....	431	357	74	83	42	12	0	4	3	1	0	128	17
June.....	294	260	34	41	22	5	0	1	1	0	0	159	21
July.....	0	0	0	0	0	0	0	0	0	0	0	225	18
August	0	0	0	0	0	0	0	0	0	0	0	162	14
September	113	97	16	47	3	0	0	0	0	0	0	181	25
October.....	278	223	50	44	26	8	0	6	6	0	0	148	44
November	261	233	28	51	27	3	0	5	4	1	0	118	21
December.....	165	138	27	20	11	2	0	4	4	0	0	64	18
Totals	2708	2350	353	454	234	41	0	34	30	4	0	1604	278

Number of cases of contagious diseases reported to the School Department for the year ending December 31, 1910,

Diphtheria	87	Scarlet Fever	154
Measles	702	Membranous Croup	3
Cerebro Spinal Meningitis	6		

Roll of Teachers

Giving Name, Subject or Grade Taught, Residence,
Date of Election and Salary

HIGH SCHOOL

Kirk and Anne Sts.

CYRUS W. IRISH, Headmaster, 308 Nesmith street	1885	\$3000
FRANK B. SHERBURNE, Sub Master, 58 Dover street, Greek and Latin	1883	2500
MARY A. WEBSTER, First Assistant, 45 Varney street, English and Mathematics	1859	1000
CHARLOTTE E. DRAPER, 63 Dover street, Cæsar, Astronomy, Geology, Geometry	1870	1000
SUSIE L. D. WATSON, 390 East Merrimack street, United States History and Mathematics	1885	1000
ADELAIDE BAKER, 136 Myrtle street, French	1885	1000
JENNIE L. ALLEN, 947 Middlesex street, Physics and Physiology	1885	1000
EMMA L. BRADLEY, 485 Westford street, French	1890	1000
GERTRUDE A. RODLIFF, Chelmsford, Mass., History and English	1890	1000
MARIETTA CASSIDY, 4 Fifth avenue, Latin and Algebra	1890	1000
GEORGIANA F. VINTON, 52 Fourth street, History, English and Algebra	1872	1000
GRACE M. GOODHUE, 120 School street, Ancient History and Latin	1893	900
BESSIE E. HUNTOON, 64 Warwick street, French and Physiology	1894	900
CARL D. BURTT, Clark Road, Greek and German	1895	2000

FREDERICK R. WOODWARD, 168 Sixth street, Mathematics	1895	\$2000
HELEN M. LAMBERT, 283 Pawtucket street, Chemistry	1897	900
THOS. F. FISHER, 305 East Merrimack street, Manual Training	1898	1600
MARY G. STEVENS, 27 Nesmith street, English and History	1900	900
MARY H. KILLPARTRICK, 609 Stevens street, English and Commercial Geography	1901	800
MARGARET V. SPEAR, 576 Westford street, French and English	1902	800
ETHEL W. WHITCOMB, 2 Belmont street, Shorthand and Typewriting	1903	800
EDWIN M. ROBERTS, 74 Stevens street, Manual Training	1904	1200
ETHEL M. EVERETT, 12 Belmont street, English and History	1905	800
ELIZABETH H. MURPHY, 159 White street, French and English	1905	800
ALICE RICHARDSON, 213 Branch street, Algebra	1905	800
ALBERT D. MACK, 88 Warwick street, Shorthand	1906	1300
WM. W. DENNETT, 55 Eighteenth street, Algebra and Physics	1906	1100
ERNEST M. HUNT, 27 Anne street, Bookkeeping	1907	1500
ALICE H. BACHELLER, 195 Nesmith street, English and Commercial Law	1908	800
LILLIAN E. EDGERLY, 27 Anne street, Bookkeeping	1909	800
ELMER G. BRENNAN, 107 Warwick street, French and English	1910	1000
RAYMOND W. SHERBURNE, Tyngsboro, Mass., Mathematics	1910	1000
GRACE D. DONOVAN, Temp., 256 Branch street, English		700
EDITH B. KELLEY, Temp., 100 Fort Hill avenue, English		700
WARREN C. SHAW, 1164 Middlesex street, History and English	1910	800
JAMES A. SHANLEY, 364 Lawrence street, Bookkeeping	1910	800
MARIE R. SULLIVAN, Temp., 105 Crawford street, Shorthand		650
LEAH A. DeMERRITT, 33 Warwick street, Physical Culture and Elocution	1910	700
CAPT. COLBY T. KITTREDGE, 81 Mt Vernon street, Military Instructor	1901	500
FORDYCE COBURN, M. D., Wyman's Exchange, Medical Director	1905	200
KATHARINE H. COGGESHALL, 127 Fort Hill avenue, Secretary	1899	600

BARTLETT GRAMMAR SCHOOL

Wannalancit Street

HERBERT D. BIXBY, Master, 271 Gibson street	1908	\$1600
BELLE A. PRESCOTT, gr. 9, 68 Mt. Washington street	1878	700
BLANCHE A. CHENEY, gr. 8, 996 Middlesex street	1896	700
FRANCES CLARK, gr. 8, Chelmsford, Mass.	1899	700
AMY L. TUCKE, gr. 7, 111 Butterfield street	1880	700
ALICE D. SUNBURY, gr. 7, 142 Wilder street	1899	700
BELLE F. BATCHELDER, gr. 6, 66 Arlington street	1883	700
MARY E. WALSH, gr. 6, 9 Corner street	1897	700
MARIA W. ROBERTS, gr. 5, 571 Westford street	1875	700
KATHERINE F. FARLEY, gr. 5, 12 Robert street	1907	700
CAROLINE H. McGARVEY, gr. 4, 34 Laurel street	1905	650
IVAH M. CONNELL, gr. 4, 660 School street	1910	650
KATHLEEN E. DRISCOLL, Temp., 47 Grace street		

BARTLETT PRIMARY SCHOOL

BRIDGET K. SMITH, gr. 3, 117 Stackpole street	1904	\$ 650
SARAH E. AMES, gr. 2 and 3, 418 Walker street	1902	650
A. GERTRUDE STILES, gr. 2, 72 Varney street	1895	700
ESSIE E. ROCHE, gr. 1, 1835 Middlesex street	1903	650
E. BELLE PERHAM, gr. 1, 90 Riverside street	1893	700

MORRILL SCHOOL

Common and Adams Streets

ANNA M. COURTNEY, Prin., gr. 2, 25 Waugh street	1887	\$ 750
AGNES T. COURTNEY, gr. 3, 11 Marsh street	1891	700
ANNA T. COFFEY, gr. 1, 189 Wilder street	1910	650

CROSS STREET SCHOOL

Cross Street between Fletcher and Mt. Vernon Streets

SARAH E. SCALES, Principal, gr. 3, 14 Porter street	1866	\$ 750
ELLEN M. WHITE, gr. 2, 1057 Middlesex street	1863	700
KATHERINE KELLY, gr. 1, 24 Columbus avenue	1893	700

BUTLER GRAMMAR SCHOOL

Gorham Street

CORNELIUS F. CALLAHAN, Master, 143 Westford st.	1885	\$2000
NELLIE F. MURPHY, gr. 9, 85 Sherman street	1878	700
MARGUERITE J. CRONIN, gr. 9, 228 Plain street	1900	700
MARY E. LANE, gr. 8, Billerica, Mass.	1894	700
SADIE E. TULLY, gr. 8, 105 Westford street	1897	700
DELIA T. BRADY, gr. 7, 183 Chapel street	1883	700
KATE E. KELLEY, gr. 7, 129 Moore street	1883	700
ANNIE J. DEVINE, gr. 6 and 7, 112 Carlisle street	1901	650
MARY L. CROWLEY, gr. 6, 201 Appleton street	1902	650
HELEN L. CLARK, gr. 6, 297 East Merrimack street	1908	650
ALICE C. O'BRIEN, gr. 6 and 7, 300 Wilder street	1897	700
MARY L. McSORLEY, gr. 5, 40 Huntington street	1879	700
ETTA G. BURNS, gr. 5, 329 Concord street	1901	650
MARGARET G. HYDE, gr. 4, 5 Floyd street	1902	650
KATHARINE M. USHER, gr. 4, 465 Parker street	1895	700
KATHERINE M. JANTZEN, gr. 4, 3 Olive street	1902	650
MARY G. QUINN, gr. 4, 28 Chapel street	1906	650
JOANNA V. HOAR, gr. 4, 87 Mt. Washington street	1901	650

LYON STREET SCHOOL

Corner Lyon and Central Streets

ALICE T. LEE, Principal, gr. 3, 12 South Walker street	1878	\$ 750
MARY E. CASSIDY, gr. 2, 44 B street	1908	650
MARY J. McCARRY, gr. 1, 536 Fletcher street	1881	700
LORETTA A. HANNAFIN, gr. 1, 15 Sargent street	1910	650
ELLEN F. LYNCH, gr. 2 and 1, 11 Salem street	1910	650

CARTER STREET SCHOOL

Carter Street

ISABELLA T. VINALL, Principal, gr. 3, 1 Glidden avenue	1873	\$ 750
MARGARET J. CONNORS, gr. 2, 48 Walnut street	1894	700
KATHERINE F. BRADY, gr. 2, 173 Chapel street	1897	700
MARY V. JOHNSON, gr. 1, 183 Wilder street	1897	700
DELIA C. MALONEY, gr. 1, 70 Elm street	1901	650

AGAWAM STREET SCHOOL

Agawam and Barrington Streets

MARY A. FAY, Principal, gr. 3, 115 Stackpole street	1889	\$ 750
ANNA M. HIGGINS, gr. 2, North Billerica	1910	650
IDA M. BENNETT, gr. 1, Y. W. C. A.	1908	650

LONDON STREET SCHOOL

Corner of London and West Streets

ELIZABETH R. MAGUIRE, Principal, gr. 3, 132 Agawam street	1884	\$ 750
MARGARET L. HAGERTY, gr. 1 and 2, 31 Royal street	1908	650
MARY F. HILL, gr. 1 and 2, 94 Midland street	1887	700

WEED STREET SCHOOL

Corner of Weed and Gorham Streets

LILLA M. McEVOY, Principal, gr. 3, 196 Pawtucket street	1893	\$ 750
MARY E. CROWLEY, gr. 2, 436 Lincoln street	1905	650
MARY F. DEVINE, gr. 1, 1527 Gorham street	1902	650

COLBURN GRAMMAR SCHOOL

Lawrence Street, near Charles

HELEN M. SHEAN, Principal, 169 Fort Hill avenue	1891	\$ 900
MARGARET C. FOX, gr. 9, 8 Eddy street	1900	700
ANNA T. McCARRON, gr. 8, 222 High street	1910	650
LENA COLLINS, Temp., gr. 7, 1106 Mammoth Road, Collinsville		
FLORENCE R. FOOTE, gr. 6, 28 Wannalancit street	1910	650
FRANCES L. DONOVAN, Temp., gr. 6, 168 Shaw street		
MARY J. MOYNAHAN, Temp., gr. 5, 110 Tilden		
LOUISE C. THOMAS, Temp., gr. 5, 40 West Sixth		
SADIE A. CONNOR, Temp., gr. 4, 73 Pleasant street		
ELIZABETH A. CONWAY, Temp., gr. 4, 219 Church st.		

COLBURN PRIMARY SCHOOL

Charles Street, near Lawrence

ELLEN M. HOLDEN, Principal, gr. 3, 2191 Lakeview ave.	1876	\$ 750
NELLIE F. DAVIDSON, gr. 2, 559 Fletcher street	1891	700
CLOTILDA A. DELANEY, 791 Broadway street	1910	650
KATHERINE M. TOBIN, gr. 1, 40 Linden street	1910	650
MABEL H. ELA, 407 Walker street	1900	700

CENTRAL STREET SCHOOL

Central Street, opp. Hudson

ELIZA COWLEY, Principal, gr. 3, 484 Rogers street	1857	\$ 750
ELIZABETH G. LAWLER, gr. 2, 260 High street	1897	700
ANNA T. COBURN, gr. 2, 39 Arlington street	1904	650
HELEN A. DRURY, gr. 1, 44 Walnut street	1897	700

AMES STREET SCHOOL

Corner Lawrence and Ames Streets

MARY E. DREW, Principal, gr. 2, 36 Wamesit street	1868	\$ 750
KATE F. MURPHY, gr. 3, 870 Gorham street	1885	700
EDITH FARRINGTON, gr. 1, 182 Perry street	1905	650

EDSON GRAMMAR SCHOOL

Highland Street

CALVIN W. BURBANK, Master, 130 Bowers street	1872	\$2100
FRANCES M. WEBSTER, gr. 9, 45 Varney street	1873	700
ROSALIE T. BURNS, gr. 8, 39 Whitehead avenue	1878	700
ANNIE E. DONOVAN, gr. 7 and 8, 26 Madison street	1895	700
JENNIE E. ROGERS, gr. 7, 418 Walker street	1904	650
KATE J. HAYES, gr. 6 and 7, 15 Floyd street	1879	700
MARGIE F. MARREN, gr. 6, 86 Rolfe street	1886	700
SARAH J. CROSBY, gr. 6, 12 Simpson place	1868	700
SUSAN F. BURBANK, gr. 5, 130 Bowers street	1910	650
MARY A. BALCH, gr. 5, 257 Appleton street	1865	700
JULIA B. RIORDAN, gr. 4, 58 Second avenue	1897	700
LORETTA L. WARD, gr. 4, 220 Fletcher street	1905	650

CHARLES STREET SCHOOL

Charles Street, between Gorham and Chapel Streets

ALICE T. OWENS, Principal, gr. 3, 4 Belmont street	1878	\$ 750
ELLA E. GARDNER, gr. 1 and 2, 246 Appleton street	1871	700
ELLEN A. O'CONNELL, gr. 1 and 2, 48 Mead street	1896	700
MARGARET A. HARRAHAN, gr. 1, 32 Marshall street	1882	700

COTTAGE STREET SCHOOL

Corner Cottage and Chapel Streets

ROSE E. MacVEY, Principal, gr. 2, 46 Linden street	1887	\$ 750
ANNIE L. MURPHY, gr. 3, 870 Gorham street	1901	650
E. LAURA MOORE, gr. 1, 21 Kimball avenue	1905	650

ELIOT SCHOOL

Corner Favor and Summer Streets

ELLEN A. STILLINGS, Principal, gr. 1 and 2, 24 Bellevue street	1875	\$ 750
ELLEN A. CORBETT, gr. 3, 32 Highland street	1878	700
NELLIE T. O'GRADY, gr. 2, 623 Central street	1881	700
LOYOLA McCANN, gr. 1, 17 Wentworth avenue	1893	700

GREEN GRAMMAR SCHOOL

Merrimack Street

ALBERT L. BACHELLER, Master, 195 Nesmith street....	1874	\$2100
RUTH B. BAILEY, gr. 9, 18 Loring street	1871	700
CLARA A. HANAFORD, gr. 8, 142 Wilder street	1869	700
LIZZIE A. NOLAN, gr. 7, 196 Pawtucket street	1876	700
ESTHER G. DONLAN, gr. 7, 455 High street	1897	700
JENNIE E. FAY, gr. 6, 115 Stackpole street	1891	700
HANNAH M. BARROWS, gr. 6, 19 Newhall street	1908	650
LENA A. GOOKIN, gr. 5, 20 Walden street	1880	700
CATHERINE F. McCARTHY, gr. 5, 647 Market street.....	1889	700
SADIE F. McCORT, gr. 5, 15 Center street	1901	650
ELLA J. CARLETON, gr. 4, 1072 Bridge street	1882	700
ANNIE T. DELAY, gr. 4, 87 Mt. Washington street	1900	700
CORA E. JONES, gr. 4, Y. W. C. A.	1910	650

KIRK STREET SCHOOL

Corner Kirk and Lee Streets

ELIZA A. DAVIS, Principal, gr. 2 and 3, Billerica, Mass.	1881	\$ 725
LAURA H. PALMER, grs. 1 and 2, 35 Thirteenth street....	1882	700

CABOT STREET SCHOOL

Corner Cabot and Ford Streets

MARY T. WHELLEY, Principal, gr. 3, 1 Fenwick street ..	1897	\$ 750
EUGENIA L. HOGAN, gr. 2, 106 Avon street	1889	700
MARY J. MURPHY, gr. 1, 34 Butterfield street	1887	700

CHEEVER STREET SCHOOL

Cheever Street

IDA J. CLARKE, Principal, gr. 2 and 3, 166 Branch street	1887	\$ 750
ELIZABETH PROVENCHER, ungraded, 523 Fletcher street	1908	650
HELEN KOHAWN, ungraded, 63 Thirteenth street	1877	700
EUGENIE V. FRAPPIER, gr. 1, 26 Hampshire street	1910	650

WORTHEN STREET SCHOOL

Worthen Street, between Market Street and Broadway

MARY J. ALGER, Principal, gr. 1, 571 Westford street	1868	\$ 750
ESTHER V. GREEN, gr. 2, 434 Westford street	1889	700
MARY R. MARREN, gr. 3, 86 Rolfe street	1890	700
MARY E. MEEHAN, gr. 1, 228 Worthen street	1891	700

GREENHALGE GRAMMAR SCHOOL

Ennell Street, Centralville

FREDERICK A. WOOD, Master, 295 Pawtucket street	1906	\$1800
MARY E. TOBIN, gr. 9, 40 Linden street	1906	650
GRACE E. FRYE, gr. 8, Billerica, Mass.	1910	650
GRACE M. THURBER, gr. 7, 52 Fourth street	1910	650
MAUDE E. MOODY, gr. 6, 25 Lane street	1906	650
JOSEPHINE S. DUNLAVY, gr. 5, 22 Lagrange street	1908	650
ALICE A. MASTERSON, gr. 4 and 5, 352 Christian street	1892	700
ANNIE L. MAHONEY, gr. 4, 41 Butterfield street	1906	650

GREENHALGE PRIMARY

MARTHA ROGERS, gr. 3, 131 Cumberland road	1895	\$ 700
M. JOSEPHINE DONEHUE, gr. 2, 891 Bridge street	1900	700
BLANCHE E. MARSHALL, gr. 1, 48 Marginal street	1908	650

LAKEVIEW AVENUE SCHOOL

Lakeview Avenue, Centralville

MARGARET J. McCLUSKEY, gr. 3, 246 Methuen street	1890	\$ 750
ALICE E. RAMSAY, gr. 2, 124 Third street	1906	650
ANNA F. JOYCE, gr. 1, 22 Twelfth street	1906	650
ANNIE E. IRVING, gr. 1, 82 Stone street, Dracut, Mass....	1908	650
MARION A. STEVENS, gr. 1, 276 Westford street	1908	650

HIGHLAND GRAMMAR SCHOOL

Pine Street

CHARLES W. MOREY, Master, 14 Belmont street	1880	\$2100
FLORA I. MOFFITT, gr. 9, 502 Wilder street	1887	700
MARY F. FOSS, gr. 9, 248 Foster street	1891	700
ABBIE F. WOODWARD, gr. 8, 157 Dartmouth street	1869	700
ESTELLE L. WHITNEY, gr. 8, 13 Oakland street	1885	700
LEONORA K. BATTLES, gr. 7, 21 Chester street	1895	700
ANNA A. BURNHAM, gr. 7, 14 Belmont street	1894	700
LUELLA A. WARDWELL, gr. 6, 13 Oakland street	1870	700
MINNIE C. GRAY, gr. 6, 106 Liberty street	1890	700
GRACE R. SANDERS, gr. 5, 67 South Loring street	1897	700
LULU TURNER, gr. 5, 418 Walker street	1900	700
GRACE F. WARD, gr. 5, 201 Appleton street	1893	700
C. ETHEL HALE, gr. 4, 15 Robbins street	1906	650
MABEL E. BROWN, gr. 4, 172 Branch street	1901	650
ARVILLA L. READER, gr. 4, 216 Appleton street	1871	700

FRANKLIN SCHOOL

Corner Branch and Middlesex Streets

SARAH C. FISKE, Principal, gr. 3, 246 Appleton street	1866	\$ 750
LIZZIE S. LOWE, gr. 2, 13 Nichols street	1857	700
MARION J. STEVENSON, gr. 1 and 2, 63 Princeton street	1878	700
KATE G. JONES, gr. 1, 240 Jewett street	1880	700
MARY E. RICHARDSON, gr. 2, Chelmsford, Mass.	1910	650

PINE STREET SCHOOL

Corner Pine and Gibson Streets

CARRIE J. BAILEY, Principal, gr. 3, 16 Loring street	1884	\$ 750
GRACE I. WASHBURN, gr. 2, 233 Westford street	1897	700
HELEN D. SWAIN, gr. 1, 480 Westford street	1904	650

DOVER STREET SCHOOL

Dover Street, between Middlesex and Grove Streets

CLARA B. HORNE, Principal, gr. 3, 106 Chestnut street	1877	\$ 750
CLEMENTINE H. BOWERS, gr. 2, 18 Loring street	1876	700
BERTHA GARDNER, gr. 1, 32 Robbins street	1887	700

MIDDLESEX VILLAGE SCHOOL

Middlesex Street, corner Cornell Street

HARRIET F. WAKEFIELD, Principal, gr. 5 and 6, 2 Loring street	1889	\$ 750
KATHERINE G. EGAN, grs. 3 and 4, 17 Princeton street	1904	650
GERTRUDE E. DANE, gr. 1 and 2, 234 Gibson street	1905	650

POWELL STREET SCHOOL

Powell Street, near Liberty Street

VIOLA A. HAMBLETT, Principal, gr. 1 and 2, 58 Bellevue street	1876	\$ 725
ELLEN J. PIPER, gr. 2 and 3, 55 Norcross street	1894	700

ABRAHAM LINCOLN GRAMMAR SCHOOL

Chelmsford Street

JAMES L. MELLEN, Master, 74 Pentucket avenue	1893	\$2100
MARGARET M. SPARKS, gr. 9, 169 Fort Hill avenue	1894	700
GRACE SCRIBNER, gr. 8, 190 Liberty street	1893	700
IRMA V. HODGMAN, gr. 7, 632 Westford street	1897	700
BRIDE T. SWEENEY, gr. 7, 138 Pleasant street	1900	700
ALICE L. GOOKIN, gr. 6, 824 Rogers street	1902	650
ESTHER M. DOWNING, gr. 6, 434 Westford street	1904	650
HELEN J. O'HEARN, gr. 5, 10 Shaffer street	1900	700
MARGARET G. McDONALD, gr. 5, 397 Broadway	1904	650
ELLA E. PRESCOTT, gr. 4, 44 Witham avenue, Dracut	1894	700
ELLEN L. FLOYD, gr. 4, 124 Stevens street	1887	700

Primaries in Lincoln School Building

ELSIE M. PUFFER, gr. 1, 942 Middlesex street	1901	650
LILLIAN A. STROUT, gr. 1, 95 So. Loring street	1906	650

LAURA E. LEE SCHOOL

Corner Plain and Powell Streets

FLORA H. SPRAGUE, Principal, gr. 3, 589 School street	1882	\$ 750
LENA M. ROBINSON, gr. 2 and 3, 68 So. Walker street ..	1898	700
LILLA M. STANLEY, gr. 2, 2 Horn street	1897	700
SADIE M. DEANE, gr. 1 and 2, 17 Loring street	1902	650
MINNIE E. COBURN, gr. 1, 342 Westford street	1910	650

HOWARD STREET SCHOOL

Howard Street, between Chelmsford and Hale Streets

MARION E. GREENE, Principal, gr. 3, 96 Pine street	1884	\$ 750
MARGARET S. JAMIESON, gr. 2, 112 Shaw street	1904	650

GRAND STREET SCHOOL

Grand Street, between Westford and Middlesex Streets

JENNIE M. BENNETT, gr. 2, 2 Bellevue street	1885	\$ 700
CHARLOTTE A. PARSONS, gr. 1, 485 Westford street	1910	650

MOODY GRAMMAR SCHOOL

Corner High and Rogers Streets

WILLIAM S. GREENE, Master, 302 Nesmith street	1883	\$2000
BERTHA M. ROWLANDSON, gr. 9, 11 Holyrood ave.	1891	700
CARRIE A. PAUL, gr. 8, 42 Huntington street	1891	700
M. ALICE MATHER, gr. 8, 112 Fort Hill avenue	1910	650
NELLIE C. MAHONEY, gr. 8, 17 North street....	1898	700
IDA L. SAMUELS, gr. 7, 56 Fifth avenue	1898	700
ELLA M. BREEN, gr. 6, 23 Marsh street	1893	700
MARTINA F. McMAHON, gr. 6, 33 Mead street	1905	650
FRANCES E. HARDMAN, gr. 5, 18 Astor street	1873	700
FRANCES E. GARRITY, gr. 5, 190 Shaw street	1874	700
FLORA A. OWEN, gr. 4, 42 Huntington street	1900	700
ANASTASIA E. DOWNING, gr. 4, 434 Westford street	1908	650

POND STREET SCHOOL

Corner High and Pond Streets

WINIFRED C. HAGGERTY, Principal, gr. 2, 52 Huntington street	1884	\$ 750
ADELAIDE CROWLEY, gr. 1, 115 Fort Hill avenue	1894	700
GERTRUDE SEEDE, gr. 3, 85 Dover street	1906	650

HIGH STREET SCHOOL

High Street, between Chestnut and Everett Streets

CLARA A. EMERSON, Principal, gr. 3, 216 Appleton st.	1869	\$ 750
MARY I. HALLORAN, gr. 2, 546 East Merrimack street	1908	650
MAUDE E. GREEN, gr. 1, 238 East Merrimack street	1900	700

SYCAMORE STREET SCHOOL

Sycamore Street

FLORENCE E. ROWELL, Principal, gr. 2 and 3, 60 Porter Terrace	1900	\$ 725
ELIZABETH B. DAME, gr. 1 and 2, 178 First street	1902	650

PAWTUCKET GRAMMAR SCHOOL

Mammoth Road, Pawtucketville

WILLIAM P. BARRY, Master, 1280 Middlesex street	1887	\$2000
ELLEN M. MacDONALD, gr. 9, 196 Pawtucket street	1878	700
M. ISABELLA PHELPS, gr. 8, 50 Lamb street	1908	650
CHARLOTTE C. WALSH, gr. 6, 76 Mt. Vernon street	1902	650
GOLDIE M. GARDNER, gr. 5, 15 Columbus avenue	1898	700
CORINNA G. COVER, gr. 4, 16 Lombard street	1901	650
ELIZABETH G. COMMON, temp., gr. 7, 107 Beech street		

NEW MOODY STREET SCHOOL

New Moody Street

ADDIE B. MERRILL, Principal, gr. 3, 465 Bridge street	1892	\$ 900
GRACE C. DELANEY, gr. 2 and 3, 791 Broadway	1900	700
ANNA I. CASSIDY, gr. 2, 4 Fifth avenue	1902	650
ELEANOR J. LeLACHEUR, gr. 2, 130 Avon street	1910	650
MARY E. SNOW, gr. 1, 89 School street	1901	650
MAUDE M. HARDY, gr. 1, 171 Walker street	1901	650
ALICE B. BESSE, gr. 1, 581 Rogers street	1891	700

LEXINGTON AVENUE SCHOOL

CARRIE M. HART, 16 Varney street	1887	\$ 725
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RIVERSIDE GRAMMAR SCHOOL

Woburn Street, Wigginvillle

HARRIET L. WHEELER, Principal, gr. 7 and 8, 64 Morton street	1900	\$ 900
ELIZABETH A. GILINSON, gr. 5 and 6, 250 Plain street	1910	650
FRANCES J. CUNNINGHAM, gr. 4, 517 Rogers street....	1906	650

RIVERSIDE PRIMARY SCHOOL

CHRISTINE M. KANE, gr. 3, 339 High street	1908	\$ 650
ETTA M. SMITH, gr. 2, 1118 Lawrence street	1906	650
CHARLOTTE O. LOWE, gr. 1, North Chelmsford, Mass.	1910	650

VARNUM GRAMMAR SCHOOL

Myrtle Street, Centralville

(Telephone 2326-2)

HENRY H. HARRIS, Master, 93 Eleventh street	1893	\$2100
ELIZABETH C. KENNEDY, gr. 9, 106 Durant street	1884	700
MARY F. WING, gr. 9, 3 Myrtle street	1879	700
AGNES BAILEY, gr. 8, 53 Third street	1900	700
DAISY B. MacBRAYNE, gr. 8, 24 Beech street	1900	700
GRACE W. BALCH, gr. 7, 117 Third street	1894	700
ANNIE V. DONOGHUE, gr. 7, 24 South Loring street	1904	650
MARY A. FAY, gr. 6, 303 Tenth street	1898	700
AGNES T. FAY, gr. 6, 303 Tenth street	1891	700
ROSE A. DOWD, gr. 6, 237 Tenth street	1884	700
ELIZABETH F. GARRA, gr. 5, 109 Bartlett street	1893	700
ALICE R. KEESE, gr. 5, 107 Warwick street	1881	700
ADA E. HOOLE, gr. 5, 173 Warren street	1894	700
MARGARET F. HOWE, gr. 4, 208 South street	1900	700
JULIA WILLIAMS, gr. 4, 156 Sixth street	1886	700

WEST SIXTH STREET SCHOOL

West Sixth Street, between Coburn and Jewett Streets, Centralville

STELLA J. ALLEN, Principal, gr. 3, 115 Third street	1879	\$ 750
ELIZABETH F. LAMERE, gr. 2, 63 Canton street	1887	700
MARION S. KEYES, gr. 1 and 2, 102 Third street	1888	700
MARY J. CALLAHAN, gr. 1, 117 Durant street	1895	700

TENTH STREET SCHOOL

Corner Tenth and Varum Streets, Centralville

MARY F. BEANE, Principal, gr. 3, 212 Tenth street	1879	\$ 750
FANNIE H. MURPHY, gr. 2, 42 Twelfth street	1889	700
ALICE A. HOLTHAM, gr. 1 and 2, 1107 Bridge street	1887	700
ELLA A. BAILEY, gr. 1, 205 Tenth street	1869	700
MABEL A. METCALF, gr. 1, 93 Vernon street	1908	650

BILLINGS STREET SCHOOL

ANNIE M. ROBBINS, Principal, gr. 3, 62 Twelfth street	1895	\$ 750
ETTA FOYE, gr. 2, 127 Durant street	1901	650
ELIZABETH H. SEEDE, gr. 1, 85 Dover street	1906	650
ALICE O. STICKNEY, gr. 1, 599 School street	1910	650

WASHINGTON GRAMMAR SCHOOL

Lang Street, opposite Inland

JOHN E. BARR, Master, gr. 8, 33 Burtt street	1906	\$1300
HELEN A. DOW, gr. 8, 149 B street	1905	650
ESTHER M. GREENE, gr. 7, 179 Warwick street	1906	650
SUSAN C. GRIFFIN, gr. 6, 580 School street	1906	650
LAURA F. GREENE, Temp., gr. 5, 179 Warwick street		

KINDERGARTENS**AGAWAM STREET**

SARAH G. SPARKS, Principal, 59 Elm street	1894	\$ 550
KATHARINE M. CROWLEY, 115 Fort Hill avenue	1908	500

BARTLETT

HELEN W. NOYES, Principal, 49 Nesmith street	1896	550
EDITH A. ANDREWS, 77 Fort Hill avenue	1897	500

CHARLES STREET

MABEL D. NICKERSON, Principal, 136 Chestnut street	1893	550
S. ALICE KNAPP, 336 East Merrimack street	1899	500

CHAPEL STREET

MARIETTA G. GORMLEY, Principal, 22 Lyon street	1895	550
KATHERINE E. EARLEY, 181 Pleasant street	1896	500

DOVER STREET

ELIZABETH A. WILSON, Principal, 15 South Canton street	1893	550
ELLA M. PENN, 262 London street	1901	500

FRANKLIN

N. GRACE TAYLOR, Principal, 11 Ware street	1895	550
HORTENSE M. LAMERE, 6 West Eleventh street	1899	500

LAURA E. LEE

EDITH A. HOWITT, Principal, 52 Myrtle street	1897	550
ALICE F. SEETON, 158 Mammoth road	1901	500

LINCOLN

ELSIE M. CRAGIN, Principal, 114 South Walker street	1895	\$ 550
GERTRUDE A. ROBERTS, 74 Stevens street	1897	500

MOODY

MARY C. WALKER, Principal, 100 Appleton street	1893	550
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PAWTUCKET

MARIETTA KING, Principal, 205 Stackpole street	1895	550
S. HORTENSE TABOR, 82 Riverside street	1896	500

PINE STREET

LOUIE I. SMITH, Principal, 11 Edson street	1895	550
GERTRUDE B. CROWLEY, 115 Fort Hill avenue	1909	500

VARNUM

NETTIE M. CONANT, Principal, 198 Third street	1892	550
CLARA M. EVERETT, 75 Beacon street	1896	500

SUPERVISOR OF KINDERGARTENS

ANNA W. DEVEREAUX, Tel. 2261-1, 14 Park street	1893	500
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MUSICAL DIRECTOR

FREDERICK O. BLUNT, Tel. 2967-1, 21 Bellevue street	1898	1250
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ROLL OF TEACHERS

81

ASSISTANT IN MUSIC

JOSEPHINE C. COBURN, 341 East Merrimack street 1903 800

SUPERVISORS OF DRAWING

OLIVE E. UNDERHILL, 117 Branch street 1887 750
ADDIE E. EDWARDS, Tel. 1128-1, 57 Pine street 1907 750

TEACHER OF SEWING

IDA J. FLINT, Tel. 2641-2, 200 Liberty street 1880 800

SUPERVISOR OF MANUAL TRAINING

MABEL W. EWINGS, 3 Astor street 1891 900

TRAINING SCHOOL GRADUATES

CLASS OF JUNE, 1909

Lena Collins, 1106 Mammoth road, Collinsville.
Elizabeth G. Common, 109 Beech street.
Sadie A. Connor, 73 Pleasant street.
Elizabeth A. Conway, 219 Church street.
Frances L. Donovan, 168 Shaw street.
Kathleen E. Driscoll, 47 Grace street.
Laura F. Greene, 179 Warwick street.
Mary J. Moynahan, 110 Tilden street.
Katherine P. O'Brian, 28 West Adams street.
Edith T. Sanborn, 260 Mansur street.
Leona M. Small, 46 Whitney avenue.
Louise C. Thomas, 40 West Sixth street.
Rena J. Thomas, Blackstone, Mass.

CLASS OF JUNE, 1910

Lillian E. Alister, 15 Staveley street.
Florence E. Archibald, Y. W. C. A.
Mary Alice Cochrane, 230 Cabot street.
Ruth Crowell, 71 Fort Hill avenue.
Julia M. Driscoll, 47 Grace street.
Marianna L. Donovan, 256 Branch street.
Margaret F. Donovan, 42 Claire street.
Myrtle M. Killpartrick, 609 Stevens street.
Alice G. McGilly, 112 Concord street.
Olive J. Palm, 255 Plain street.
Mary R. Seery, 237 Tenth street.
Millie A. Severance, 302 Stevens street.
Julia G. Slattery, 65 Arlington street.
Helen M. Whitcomb, 2 Belmont street.

TEACHERS' CERTIFICATES

Granted since January 1, 1907

First Grade

Fred K. Bryant, Harvard, '06, 154 Andover street.
Dennis A. Murphy, University of America, '08, 349 Broadway
Joseph G. Pyne, Holy Cross, '10, 823 Central street.
George F. Lee, Boston College, '09, 536 Gorham street.
John E. Robinson, Bates, '06, Goffstown, N. H.
Arthur B. Barnes, Dartmouth, '08, 30 Huntington street.

Second Grade

Rena J. Thomas, Smith, '08, Blackstone, Mass.
May D. Stone, Mt. Holyoke, '08, 63 Royal street.
Millie A. Severance, Smith, '09, 302 Stevens street.
Helen M. Whitcomb, Smith, '08, 2 Belmont street.
Violet Stocks, Smith, '07, 141 Parkview avenue.
Anna C. Chandler, Wellesley, '09, 5 Concord Terrace, South Framingham,
Mass.
Lucy P. Hall, Smith, '06, 135 Hildreth street.
Marie R. Sullivan, Salem Commercial, '08, 105 Crawford street.
Frances M. Masterson, Radcliffe, '10, 352 Christian street.
Josephine A. Boynton, Smith, '08, 101 Livingston avenue.
Mary L. Martin, Smith, '10, 547 Gorham street.

Fourth Grade

Helen S. Livingston, Lowell Normal, '05, 28 Robbins street.
Ethel H. Church, Lowell Normal, '07, 151 Princeton street.
Helen B. Webster, Lowell Normal, '08, 69 Myrtle street.
Myra L. Stacy, Lowell Normal, '08, 16 Fairfield st., Haverhill, Mass.
Josephine A. Boynton, Lowell Normal, '03, and Smith College, '08, 101
Livingston avenue.
Catherine Dunn, Lowell Normal, '10, West Chelmsford, Mass.
Elsie M. Dustin, Lowell Normal, '10, 79 Pennacook st., Manchester, N. H.
Sophie H. Kegler, Lowell Normal, '10, 34 Lowden ave., West Somerville.
Edna H. Walcott, Lowell Normal, '10, Nashua, N. H.

SALARIES OF TEACHERS

HIGH SCHOOL

Head Master	\$ 3000
First Sub-Master	2500
Men Teachers	800 to 2000
Women Teachers, first year	650
Women Teachers, second year	700
Women Teachers, third year and thereafter	800 to 1000

GRAMMAR SCHOOLS

Masters, (yearly increase, \$100)	\$1300 to 2000
Teachers, first 10 years, \$650; after ten years	700
Teachers of Drawing	750
Teachers of Music	800 to 1250
Teacher of Sewing	800
Teacher of Manual Training	900

PRIMARY SCHOOLS

Principals of three or more rooms \$700; after ten years	\$ 750
Principals of two or more rooms \$675; after ten years	725
Teachers \$650; after ten years	700

KINDERGARTENS

Principals	\$ 550
Assistants	500

TEMPORARY TEACHERS

Men Teachers per day	\$ 3.00
Women Teachers	2.50
Kindergartners	1.75

TEXT BOOKS USED IN THE PUBLIC SCHOOLS

PRIMARY SCHOOLS

First Readers, Many Series	Davis's Stories of American History
Second Readers, Many Series	Carroll's Around the World, Book I
Advanced Second and Third Readers, Many Series	Aldine Reading Chart
Franklin Primary Arithmetic	American Music Readers
Prince's Arithmetic by Grades	American Music Chart
Nichol's Graded Lessons in Number	Blaisdell's Child's Book of Health
Wilson's Historical Reader	Whitehouse's Writing Books

GRAMMAR SCHOOLS

Third Readers, Several Series	The Rational Spelling Book
Fourth Readers, Several Series	Chancellor's Spellers
Fifth Readers, Several Series	Quincy Word List
Scudder's Fables and Folk Stories	Reed's Word Lessons
DeFoe's Robinson Crusoe	The Mother Tongue, Books I and II
Burrough's Birds and Bees	Frye's Geographies
Hawthorne's Wonder Book	Gordy's History of the United States
American Literature, Masterpieces	Scudder's History of the United States
Southworth-Stone Arithmetics	Fiske's History of the United States
Carpenter's Geographical Readers	Montgomery's History of the United States
Carroll's Around the World	Tappan's Our Country's Story
Lewis's First Manual of Composition	Guerber's Story of the Greeks
Union Series of Physiologies	Guerber's Story of the English
Coleman's Physiologies	Ashley's Citizen and Government
Gulick Hygiene Series, Books I and II	Worcester's, Webster's and Clarendon Dictionaries
Wentworth's First Steps in Algebra	Werner Mental Arithmetic
Worcester's Speller	Whitehouse's Writing Books
The Morse Speller	American Music Readers

HIGH SCHOOL

Chemistry, Physics and Other Sciences

Experimental Chemistry, Newell	Lessons in Astronomy, Young
Qualitative Analysis, Irish	Physics, Hoadley
A Text-Book of Physics,	Physiology, Kellogg
Hall-Bergen	Physiology, Blaisdell
Botany, Gray	Physiology, Martin
Geology, Le Conte	Tarr's Physical Geography
Descriptive Chemistry, Newell	Geology, Brigham
Herbarium Wilson	

English

English Compositions, Shaw	Silas Marner, Eliot
Composition and Rhetoric, Scott	Sir Roger de Coverly Papers, Addison
and Denney	
Hill's Principles of Rhetoric	Ancient Mariner, Coleridge
Foundations of Rhetoric, Hill	Chaucer to Arnold, George
Lessons in English, Buehler	Conciliation with America, Burke
Composition Rhetoric, Brooks	Ivanhoe, Scott
and Hubbard	Macbeth, Shakespeare
Enlarged Practice Book, Hitchcock	Lady of the Lake, Scott
Introduction to English	Merchant of Venice, Shakespeare
Literature, Pancoast	Milton and Addison, Macaulay
Story of the Odyssey, Church	Milton's Lyrics
Tales from Shakespeare, Lamb	Idylls of the King, Tennyson
Iliad, Pope	Vicar of Wakefield, Goldsmith
Iliad, Bryant	Life of Oliver Goldsmith, Irving
Julius Cæsar, Shakespeare	Vision of Sir Launfal, Lowell

French

College Plays, Bocher	Le Siege de Berlin
Colomba, Merimee	Class-book of French Composition,
Le Cid, (Corneille)	Blouet
Contes et Legendes, II, Guerber	French Dictionary, Heath
Douze Contes Nouveaux, Fontaine	French Grammar, Grandgent
French Reader for Beginners	French Grammar, Fraser and Squair
Kuhns	French Grammar, Worman
La Chute, Hugo	French Lyrics, Bowen
Le Tour de la France par	French Reader, Super
deux Enfants, Bruno	Exercises, Grandgent, III, IV, V
La Mare au Diable, Sand	Exercises for French Composition,
La Famille de Germandre, Sand	Kimball
La Fontaine's Fables	
(American Book Company)	

La Tache du Petit Pierre	French Syntax and Composition,
Le Voyage de Monsieur Perrichon,	Bouvet
Labiche	Le Conscriit de 1813, Erckmann-
French Composition, Grandgent	Chatrian
Sight Reading, Rogers	Readings from French History, Super
La Grammaire, Labiche	Selected Stories, Daudet
Scenes le la Revolution	L'Expedition de Bonaparte en
Francaise, Lamartine	Egypte, Theirs
Le Dix Septieme Siecle	French Commercial Reader, Pitman
Grammaire Francaise, Larive et	Intermediate French, Jacques
Fleury, 2me An.	

German

Hoher als die Kirche, Clary	German Dictionary, Heath
German Composition, Fasnacht	Der Zerbrochne Krug, Joyne's
Traumereien, Leander	Schiller's Der Neffe Als Onkel
Heise's L'Arrabbiata	Joynes Meissner's German Grammar
Harris' German Lessons	Riehl's Der Fluchder Schonheit
Wesselhoefts' German Composition	Gould's Tales from Hauff
Harris' German Composition	Schiller's Jungfrau von Orleans
Immensee, Storm's	

Greek

Anabasis, Xenophon	Greek Lexicon, Liddell and Scott
Greek Composition, Pearson	Greek Lexicon, White
Greek Composition, Woodruff	Greek Reader, Goodwin
Greek Grammar, Goodwin	Homer's Iliad, Seymour
Greek Lessons, White	Homer's Odyssey, Seymour

History

Ages of Pericles, Grant	Fiske's School Histories
American History, Montfomery	A Short History of Ancient
Ancient History, Myers	Times, Myers
English History, Montgomery	Greek History, Morey
Greek Civilization, Mahaffy	Roman History, Morey
History of England, Coman and	Greek History, Botsford
Kendall	Greek Tragedians, Church
History of English People, Green	Johnston's American History
English History, Higginson and	Plutarch's Lives, Kaufman
Channing	Source Book, Hart
European History, Adams	U. S. History, McMaster

Latin

Cæsar, Allen and Greenough
Cicero, Allen and Greenough
Gate to Cæsar, Collar
Ovid, Allen and Greenough
Sallust

Virgil, Allen and Greenough
Virgil, Brice
Viri Romæ, Rolfe
First Year Latin, Collar and Daniell

Mathematics

Academic Algebra, Wells
Arithmetic, Wentworth and Hill
Geometry, Plane and Solid,
Wentworth
Essentials of Algebra, Wells

Elementary Algebra, Wentworth
Geometry, Wells
Higher Algebra, Wells
Trigonometry, Wentworth

Commercial

Commercial Geography, Adams
Mental Arithmetic, Williams and
Rogers
Business Correspondence,
Williams and Rogers
Seventy Lessons in Spelling,
Williams and Rogers

Commercial Arithmetic, Williams
and Rogers
Commercial Law, Gano
Bookkeeping and Business Practice,
Williams and Rogers
Shorthand, Gregg

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS OF THE CITY OF LOWELL FOR THE YEAR ENDING JUNE 30, 1910.

SCHOOLS	LOCATION	Whole No. Enrolled			No. pupils belonging Dec. 1910			Whole No. pupils on time books since Sept. 1, 1909			Average No. pupils belonging to school			Average daily attendance			No. ent'd not rec. from any other public school	Rec'd from other public schools of lower grade	Rec'd from other public schools of same grade	Sent to other public schools of higher grade	Sent to other public schools of same grade	Per cent. of attendance	Number of class rooms in regular use	Number of seats or sittings in these rooms	Number of half days of school, counting each room as a "school"
		Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total									
High	Kirk and Anne Sts.	555	658	1213	554	653	1207	555	658	1213	431	508	939	479	494	973	79	300	24	24	0	95	37	1001	13246
Bartlett (Gr.) Primaries	Wannalancit St.	240	263	503	210	235	445	246	273	519	217	230	447	203	213	417	39	88	16	25	27	93	11	602	3971
Bartlett	Wannalancit St.	120	113	233	105	103	208	129	119	248	110	98	208	100	86	186	66	15	15	59	19	89	5	256	1805
Morrill	Adams and Common Sts.	84	46	130	67	26	83	96	52	148	60	24	84	56	22	78	84	1	18	20	17	93	3	146	1083
Cross St.	Cross St., near Mt. Vernon St.	41	70	111	33	47	80	44	73	117	34	51	85	32	45	77	52	5	6	21	9	91	8	133	1083
Totals for Primaries		245	229	474	195	176	371	269	244	513	204	173	377	188	153	341	202	21	39	100	45	90	11	555	3971
Butler (Gram.) Primaries	Gorham St.	354	339	693	346	315	661	367	351	718	332	314	646	313	289	602	35	153	25	57	21	93	16	795	5760
Agawam St.	Cor. Agawam and Barrington Sts.	60	43	103	55	38	93	65	52	117	57	44	101	52	40	92	11	12	13	35	8	92	3	140	1083
Carter St.	Carter St.	95	102	197	101	82	183	98	105	203	84	90	174	76	82	158	13	2	6	37	15	91	5	280	1805
London St.	Corner of London and West Sts.	80	75	155	59	60	119	93	80	173	73	65	138	66	56	122	155	0	18	40	22	88	3	144	1083
Lyon St.	Cor. Central and Lyon Sts.	107	108	215	101	88	189	116	119	235	93	89	182	78	74	152	75	5	20	47	13	90	5	247	1805
Weed St.	Cor. Gorham and Weed Sts.	59	61	120	56	53	109	68	64	132	55	49	104	50	45	95	42	0	12	25	10	91	3	165	1089
Totals for Primaries		401	389	790	372	321	693	440	420	860	362	337	699	322	297	619	336	19	69	184	128	89	19	980	6865

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS—Continued

Edson (Gram.) Primaries	Cor. Highland and South Sts.	252	267	519	221	240	461	265	286	551	224	244	468	201	235	436	23	107	30	36	34	93	11	561	3993
Charles St.	Charles St., near Gorham St.	92	88	180	79	83	162	102	95	197	71	77	148	66	72	138	56	3	23	23	23	94	4	192	1448
Cottage St.	Cor. Cottage and Chapel Sts.	61	57	118	63	48	111	70	63	133	53	45	98	49	39	88	50	0	17	24	17	90	3	156	1079
Eliot	Cor. Summer and Favor Sts.	80	79	159	70	82	152	98	91	189	71	60	131	65	54	119	68	0	40	33	37	90	4	220	1452
	Totals for Primaries	233	224	457	212	213	425	270	249	519	195	182	377	180	165	345	173	3	80	80	77	91	11	568	3979
Green (Gram.) Primaries	Merrimack St. opp. Colburn st.	263	283	546	200	172	372	288	289	577	203	213	416	191	199	390	148	79	31	27	25	94	11	575	3977
Cabot St.	Cor. Cabot and Ford Sts.	78	45	123	40	37	77	79	47	126	54	31	85	49	27	76	123	0	3	22	5	90	3	168	1083
Cheever St. ...	Cor. Cheever and Tucker Sts.	111	77	188	44	17	61	116	82	198	66	37	103	60	32	92	188	0	10	18	7	89	4	201	1452
Kirk St.	Cor. Kirk and Lee Sts.	54	59	113	24	25	49	62	69	131	34	41	75	29	34	63	65	0	29	23	22	90	2	111	726
Worthen St. ...	Worthen St., bet. B'dway & Market	89	82	171	63	59	122	97	89	186	68	66	134	64	61	125	73	0	17	31	8	93	4	215	1444
	Totals for Primaries	382	263	595	171	138	309	354	287	641	222	175	397	202	154	356	449	0	59	94	42	90	13	695	4705
Greenhalge (Gr.) Primaries	Ennell St.	172	157	329	157	137	294	181	168	349	149	134	283	140	125	265	63	54	23	21	11	94	7	336	2527
Greenhalge Lakeview Ave.	Ennell St.	62	71	133	53	47	100	64	73	137	53	54	107	48	48	96	21	0	11	27	9	90	3	144	1083
	Lakeview Ave. cor. Ferry Lane	123	98	221	76	67	143	126	102	228	99	73	172	92	57	149	95	0	7	40	13	87	4	214	1444
	Totals for Primaries	185	169	354	129	114	243	190	175	365	152	127	279	140	105	245	116	0	18	67	22	88	7	358	2527
High'd (Gram.) Primaries	Cor. Pine and Wilder Sts.	283	329	612	237	259	496	285	350	645	255	297	552	237	272	509	67	89	33	82	28	92	14	645	5040
Dover St.	Dover St., near Grove St.	74	47	121	67	53	120	79	52	131	63	44	107	57	39	96	18	25	10	30	17	90	3	188	1086
Pine St.	Cor. Pine and Gibson Sts.	61	56	117	56	51	107	62	59	121	51	49	100	46	43	89	29	19	9	25	4	87	3	168	1083
Franklin	Junc. of Branch and Middlesex Sts. .	77	71	148	72	69	141	86	83	164	64	56	120	57	48	105	55	21	29	23	33	88	4	187	1444
Powell St.	Powell St., near Liberty St.	48	51	99	48	49	97	58	56	114	41	42	83	36	38	74	24	7	29	20	12	89	2	105	766
	Totals for Primaries	260	225	485	243	222	465	283	250	535	219	191	410	196	168	364	126	72	77	98	66	88	12	613	4379

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS OF THE CITY OF LOWELL

FOR THE YEAR ENDING JUNE 30, 1910.

SCHOOLS	LOCATION	Whole No. Enrolled			No. pupils Dec. 1910			Whole No. pupils on time books since Sept. 1, 1909			Average No. pupils belonging to school			Average daily attendance			No. ent'd not rec. from any other pub. school	Rec. from other public schools of lower grade	Rec'd from other pub. schools of same grade	Sent to other public schools of higher grade	Sent to other public schools of same grade	Per cent. of attendance	Number of class rooms in regular use	Number of seats or sit-ings in these rooms	Number of half days of school, counting each room as a "school"
		Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total									
A. Lincoln (Gr.) Primaries	Chelmsford St., near Lincoln Sq.	262	222	484	240	217	457	272	232	504	237	203	440	219	190	409	26	90	20	31	14	93	10	518	3610
Howard St. ...	Howard St., near Hale St.	82	73	155	87	73	160	87	78	165	71	66	137	64	57	121	18	1	14	49	16	88	4	208	1448
Laura Lee	Cor. Chelmsford and Plain Sts.	111	101	212	111	104	215	120	113	233	99	88	187	89	77	166	19	25	25	46	21	88	5	280	1805
Lincoln	In Lincoln Grammar School Bldg. ..	51	44	95	47	46	93	54	51	105	43	39	82	39	35	74	68	27	10	0	4	83	2	112	722
	Totals for Primaries	244	218	462	245	223	468	261	242	503	213	193	406	192	169	361	105	53	49	95	41	88	11	600	3975
Moody (Gram.) Primaries	Cor. Rogers and High Sts.	240	206	446	215	182	397	257	211	468	218	181	399	201	166	367	36	78	30	44	19	92	10	456	3630
High St.	High, bet. Chestnut and Everett Sts.	53	44	97	39	34	73	63	55	118	39	41	80	35	38	73	41	3	21	22	7	91	3	126	1089
Oaklands	Sycamore St., near Wentworth Ave.	34	41	75	90	83	173	42	43	85	32	32	64	27	27	54	74	0	11	22	5	85	2	102	722
Pond St.	Cor. Pond and High Sts.	63	48	111	90	83	173	64	51	115	52	35	87	46	29	75	26	7	7	26	10	87	3	151	1084
	Totals for Primaries	150	133	283	129	117	246	169	149	318	123	108	231	108	94	202	141	10	39	70	22	88	8	379	2895
Pawtucket (Gr.) Primary	Cor. Mammoth Rd. and Fourth Ave.	131	160	291	114	137	251	137	163	300	121	147	268	116	139	255	35	50	13	26	10	95	6	315	2184
New Moody St.	Moody St., opp. Fourth Ave.	121	120	241	94	86	180	129	131	260	115	106	221	99	96	195	76	28	17	29	18	88	6	336	2184
Riverside (Gr.) Primary	Woburn St., Wigginville	66	67	133	47	66	113	67	69	136	51	54	105	48	50	98	5	29	4	0	13	92	3	133	1083
Riverside	In Grammar School building	51	68	119	37	45	82	55	69	124	43	59	102	40	54	94	49	0	5	34	2	92	3	154	1083
Training (Gr.) Primaries	Lawrence St.	203	189	392	164	169	333	215	204	419	176	171	347	163	155	318	24	97	27	18	18	92	9	414	3249
Ames St.	Cor. Ames and Lawrence Sts.	50	60	110	45	50	95	56	64	120	47	54	101	43	53	96	44	1	10	28	8	91	3	164	1083
Central St.	Central St., opp. Hudson St.	72	86	158	61	72	133	78	98	176	69	76	145	61	70	131	36	13	18	35	20	90	4	210	1444
Training	Charles St., near Lawrence St.	116	106	222	62	74	136	134	121	255	90	86	176	78	74	152	80	15	33	38	24	86	4	205	1444
	Totals for Primaries	238	252	490	168	196	364	268	283	551	206	216	422	182	197	379	160	29	61	101	52	90	11	579	3971

SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS—Continued

Varnum (Gr.)	Myrtle and Beech Sts., Centralville....	284	316	600	254	280	534	318	345	663	259	287	546	245	270	515	56	122	22	53	35	94	14	776	5014		
Primaries																											
West Sixth St.	W. Sixth St., bet. Coburn & Jewett .	94	86	180	88	91	179	102	98	200	69	73	142	63	67	130	63	5	31	37	27	91	4	228	1444		
Tenth St.	Tenth St., Cor. Varnum St.	97	113	210	89	86	175	103	120	223	79	89	168	72	81	153	44	18	19	53	28	91	5	259	1805		
Billings St. ...	Billings St., near Hildreth St.	99	79	178	73	65	138	113	89	202	85	66	151	77	59	136	77	1	26	34	11	90	4	216	1420		
	Totals for Primaries	290	278	568	250	242	492	318	307	625	233	228	461	212	207	419	184	24	76	124	66	91	13	703	4669		
G. Washington	Cor. Avery and Lang Sts.	90	79	169	98	81	179	99	88	187	83	75	158	71	69	140	1	167	19	0	22	88	4	180	1460		
Mixed Schools																											
Middlesex Vil'g Lexington Ave.	Cor. Middlesex and Cornell Sts. Lexington Ave., near Varnum Ave. .	57 20	49 15	106 35	50 13	45 10	95 23	62 20	51 15	113 35	49 12	44 12	93 24	43 12	39 11	82 23	37 31	0 0	7 4	8 6	9 3	90 94	3 1	152 56	1083 361		
	Totals for Mixed Schools	77	64	141	63	55	118	82	66	148	61	56	117	55	50	105	68	0	11	14	12	90	4	208	1444		
KINDERGARTENS																											
Agawam St.	Agawam St. Primary School Bldg. ...	25	28	53	16	18	34	25	28	53	17	20	37	13	18	31	53	0	0	3	0	79	1	40	179		
Varnum	Varnum School, Centralville	23	31	54	17	21	38	23	31	54	17	20	37	14	16	30	54	0	0	20	0	80	2	46	177		
Chapel St.	Cor. Chapel and Keene Sts.	32	30	62	15	25	40	32	30	62	21	15	36	18	13	31	62	0	0	6	2	86	1	50	177		
Dover St.	Dover St. bet. Branch and Grove .	17	25	42	11	20	31	18	25	43	13	16	29	10	12	22	42	0	1	17	1	76	1	40	177		
Bartlett	Cross St., Primary School Bldg.	20	18	38	17	11	28	20	19	39	16	12	28	13	10	23	26	0	1	21	1	82	1	40	177		
Franklin	Franklin School Bldg. Branch St. ...	21	34	55	18	22	40	35	39	74	16	21	37	10	13	23	74	0	0	10	0	62	1	41	179		
A. Lincoln	Lincoln School Bldg., Chelmsford St.	36	43	79	21	25	46	38	45	83	22	29	51	13	20	33	79	0	4	32	0	62	1	60	179		
Moody	Moody School Bldg., Rogers St.	20	18	38	7	14	21	18	18	39	15	12	27	11	8	19	38	0	1	18	1	70	1	37	178		
Pawtucket	Mammoth Road, Pawtucketville	24	33	57	11	14	25	25	33	58	15	21	36	13	16	29	57	0	1	5	2	80	1	57	179		
Charles St.	Charles St., cor. Chapel St.	39	23	62	18	12	30	39	23	62	20	11	31	15	8	23	62	0	0	3	2	74	1	40	177		
Pine St.	Pine and Gibson Sts.	21	24	45	14	16	30	21	24	45	14	17	31	11	14	25	45	0	0	24	1	81	1	43	179		
Laura Lee	Cor. Plain and Powell Sts.	23	22	45	13	18	31	23	22	45	14	15	29	11	12	23	44	0	1	14	0	80	1	40	179		
	Totals for Kindergartens	301	329	630	178	209	387	320	337	657	199	210	409	152	160	312	636	0	9	173	10	76	13	534	2139		
Summary—High School																											
Grammar Schools																											
Primary Schools																											
Mixed Schools																											
Totals, not including Kindergartens																											
Totals, including Kindergartens ..																											

CITY OF LOWELL

MASSACHUSETTS

The Auditor's Seventy-fifth Annual Report

OF THE

General Treasury Fund Receipts and Payments

For the financial year beginning January 1st, 1910 and
ending December 31st, 1910



INCLUDED IN THE BOOK ARE

Report of the City Treasurer, Report of the Accountant
Report of the Sinking Fund Commissioners
Report of the Trust Funds
Schedule of General Information

BUCKLAND PRINTING COMPANY

General Printers



72-74 Middle Street
Lowell • Mass.

City Council, 1910

Mayor

JOHN F. MEEHAN

Aldermen

SMITH J. ADAMS	JEREMIAH F. CONNORS
OWEN E. BRENNAN	ROYAL K. DEXTER
ARNOLD A. BYAM	ARTHUR L. GRAY
JAMES H. CARMICHAEL	STANLEY E. QUA
JOHN W. WAINWRIGHT	

Common Councilmen

WARD ONE

OTIS W. BUTLER	ROBERT S. FULTON
JOHN A. MCKENZIE	

WARD TWO

JOHN J. BRADY	JOHN F. GOOKIN
GARRETT G. ROYAL	

WARD THREE

WILLIAM T. DAVIS	VICTOR F. JEWETT
EDWIN W. KILLPARTRICK	

WARD FOUR

CHARLES F. DONAHOE	WILLIAM J. GARGAN
EDWARD J. TARRANT	

WARD FIVE

JAMES J. FLANAGAN	CORNELIUS J. SULLIVAN
BERNARD J. TRACEY	

WARD SIX

HENRY ACHIN, JR.	JAMES A. BURNS
JOSEPH H. JODOIN, JR.	

WARD SEVEN

ARTHUR GENEST	ALFRED T. HOWE
OVILA MORIN	

WARD EIGHT

GEORGE L. DOW	HERBERT E. ELLIOTT
ORRIN B. RANLETT, 2d	

WARD NINE

HERBERT L. CHAPMAN	JOHN P. DAVIS
HARRY H. WHITTET	

CITY OF LOWELL

The City of Lowell was originally a part of Chelmsford.

Incorporated as a Town in 1826.

Incorporated as a City in 1836.

A part of Tewksbury was annexed in 1834, 1874, 1898, 1906.

A part of Dracut was annexed in 1851, 1874, 1879.

A part of Chelmsford was annexed in 1874.

Population 1910, 106,294.

Area in square miles 14.1.

Assessed valuation, \$80,094,803.00.

Per cent of actual valuation, 100.

Tax Rate for \$1000.00, \$19.60.

Bonded Indebtedness Gross, \$3,422,490.00.

Sinking Funds Cash and Securities, \$1,030,180.95.

Net Bonded Indebtedness, \$2,292,300.05.

Miles of Streets: 137.52 accepted, 62.50 unaccepted.

Miles of Sewers (Cost \$6,326,025.50) 105.61.

School Department—63 Buildings, 327 Teachers, 13,019 Scholars.

Fire Department—14 Buildings, 6 Engines, 4 Hook and Ladder Trucks, 1 Auto Combination Truck, 2 Chemicals, 12 Hose Wagons, 144 Alarm Boxes, 133 miles of wire, 186 officers and men.

Police Department—1 Auto Patrol, 2 Patrol Wagons, 155 officers and men, 68 Patrol Boxes.

Parks, 142 acres.

Water Works—Daily capacity 14,000,000 gallons, Mains 145.30 miles, Fire Hydrants 1251, Reservoir capacity 5 days supply, all water used is from the driven well system.

REPORT OF THE CITY AUDITOR

To the Honorable, the City Council,

GENTLEMEN: —

As required by the charter and ordinance of the City of Lowell, I have the honor to transmit, herewith, the annual report, showing the financial transactions of the city for the year ending December 31, 1910.

The report is arranged by schedules, according to the General Treasury Fund System of accounting, presenting the balances, appropriations, transfers, receipts and payments.

The annual audit has been made by this department of the stocks and bonds of the Sinking Fund Commissioners, also the securities of the various Trust Funds held by the City Treasurer all of which were found to be correct, the report follows; the audit of the books of the Treasurer's and Auditor's Department was made by the Edwin S. Morse Co., whose report is printed in the book.

There has been a great deal of misunderstanding regarding the General Treasury Fund System of accounting. Section 9 of the charter amendments of 1896, reads as follows:

Sect. 9. All revenues and all moneys accruing to the City of Lowell from any source whatever, except trust funds and the revenues of the Water Department, shall, when collected or paid into the treasury, be carried to one general account, to be known as the General Treasury Fund; and all appropriations by or on behalf of said city, except from trust funds and on account of the Water Department, shall be from such fund.

Balances at the end of the year are not carried forward to the different accounts, as is customary, but are returned to the General Treasury Fund, to balance other accounts, and the balance left is appropriated by the City Council, the following year, for department expenses, so that it is necessary to run accounts in accordance with the General Treasury Fund System, and the appropriations and expenses will be found correct, in this report, along that line.

The report of the City Treasurer, the Sinking Fund Commissioners, the Accountants', and the report of the Trust Funds; also other important informations are included in the book.

Respectfully submitted,

CHARLES D. PAIGE,

Auditor of Accounts.

Lowell, Mass., April 15, 1911.

Note

Offices in the City Hall are open from 9 a. m. until 4 p. m.

All accounts against the city should be presented not later than the first day of each month, if presented later they are very liable to go until the following month, before approval.

All accounts rendered should specify what the material and supplies were for, and for which department, and if for labor, where performed and the date.

All accounts should be carefully itemized to avoid delay in payment.

Persons whose accounts against the city have been approved, should call promptly for their money, for if not called for within thirty days it is returned to the city treasury, as unclaimed.

The twelfth day of each month is the day for paying all bills approved for the preceding month.

SCHEDULE A.

CITY DEBT

Ordinary City Debt January 1, 1910.....	\$2,364,204.20	
Borrowed during the year	181,000.00	
Total.....	2,545,204.20	
Paid during the year 1910	273,914.20	
Total Ordinary City Debt Dec. 31, 1910 ..		\$2,271,290.00
Water Debt Jan 1, 1910	1,106,400.00	
Borrowed during the year	60,000.00	
Total.....	1,166,400.00	
Paid during the year 1910	15,200.00	
Total Water Debt Dec. 31, 1910		1,151,200.00
Total City Debt Dec. 31, 1910		3,422,490.00
Ordinary City Debt Dec 31, 1910.....	2,271,290.00	
Sinking Funds for payment of same	404,816.91	
Net Ordinary City Debt Dec. 31, 1910....		1,866,473.09
Water Debt Dec. 31, 1910	1,151,200.00	
Sinking Funds for the payment of same.....	625,373.04	
Net Water Debt Dec 31, 1910		525,826.96
Total Net Debt Dec. 31, 1910.....		2,392,300.05
Total Net Debt Dec. 31, 1909.....	2,510,665.48	
Total Net Debt Dec. 31, 1910....	2,392,300.05	
Decrease in City Debt during 1910.....	118,365.43	
Net Ordinary City Debt Dec. 31, 1909.....	1,988,846.10	
Net Ordinary City Debt Dec. 31, 1910.....	1,866,473.09	
Decrease in Net Ordinary City Debt	122,373.01	

LIMIT OF INDEBTEDNESS

Total City Debt Dec. 31, 1910.....	\$3,422,490.00
Deduct—Water Loans	\$1,151,200.00
Deduct—By Legislation	800,000.00
	<u>1,951,200.00</u>
City Debt as it relates to limit of indebtedness	<u>1,471,290.00</u>
Limit of Municipal Debt for 1911 $2\frac{1}{2}$ per cent of average valuation for the last three years, \$78,619,842.87.....	1,985,496.07
City Debt which relates to limit Dec. 31, 1910	<u>1,471,290.00</u>
Distance from limit Dec. 31, 1910.....	494,206.07
Distance from limit Dec. 31, 1909.....	<u>360,771.61</u>
Increase in distance from limit	133,434.46
<hr/>	
Bonded Debt	\$2,827,700.00
Notes	558,790.00
Permanent by Resolutions.....	36,000.00
	<u>3,422,490.00</u>
Ordinary City Debt	3,422,490.00
Value of all Sinking Funds	<u>1,030,189.95</u>
Net City Debt	<u>\$2,392,300.05</u>

Schedule B

BALANCE SHEET OF ASSETS AND LIABILITIES OF THE CITY
OF LOWELL, DECEMBER 31, 1910

Assets

Ordinary City Debt Sinking Fund	\$404,816 91
Water Debt Sinking Fund.....	625,373 04
Outstanding Assessments:	
Taxes	707,701 62
Sidewalk	2,667 60
Sewers	15,252 59
Street Watering.....	8,545 50
Moth	1,151 45
Department Bills	5,935 43
Cash Balance December 31	200,589 15
Total Available Assets	1,972,033 29
Valuation of Water Works, both Real Estate and Personal Property	4,375,888 00
Valuation of City Buildings, Land	4,026,232 00
Valuation of Personal Property	516,890 00
Total Unavailable Assets	8,919,010 00
Total Available Assets	1,972,033 29
Total Unavailable Assets	8,919,010 00
Grand Total	10,891,043 29

Liabilities

Ordinary City Debt	2,271,290 00
Water Works, Debt.....	1,151,200 00
Total Gross City Debt.....	3,422,490 00
Temporary Loan	700,000 00
Balance Unexpended	151,465 29
Total Liabilities.....	4,273,955 29
Surplus of Assets	6,617,088 00
Grand Total	\$10,891,043 29

CITY AUDITOR'S REPORT

FOR THE YEAR ENDING DECEMBER 31, 1910

Schedule C

GENERAL TREASURY FUND RECEIPTS AND PAYMENTS FOR THE YEAR CONSOLIDATED

Cash Balance January 1, 1910		\$198,103 83
Receipts to Gen. Treasury Fund ...	\$3,889,884 56	
Temporary Accounts	1,365,451 27	
Cash Receipts omitting duplications	\$2,525,433 29	
Payments from Gen. Treasury Fund	3,887,399 24	
Temporary Accounts	1,365,451 27	
Cash Payments omitting duplications	2,521,947 97	
		2 485 32
Cash Balance Dec. 31, 1910		\$200,589 15

GENERAL TREASURY FUND RECEIPTS

General Treasury Fund Taxes ... \$1,577,478 32

General Treasury Fund Loans :

Paving streets.....	\$68,000 00
Séwer construction	50,000 00
Fire, hospital, school repairs.....	10,000 00
Congress and Billerica St. bridge..	10,000 00
Lawrence St. improvements.....	20,400 00
Police Department wires.....	4,000 00
Fire Department wires	3,000 00
Shedd playground.....	10,000 00
Police patrol	5,600 00
Water Works—new pump	60,000 00
	<hr/> \$241,000 00

General Treasury Fund Departments.

Buildings.....	2,460 16
Charity, Hospital.....	1,724 98
Charity, O. D. R.....	4,084 43
Cemeteries	10,146 93
City Clerk.....	1,849 38
City Sealer	563 93
City Treasurer	949 07
City Weigher..	39 20
Corporation Tax	143,213 84
Excise Tax	9,918 94
Fire	44 19
Health.....	6,463 06
Incidentals.....	3,666 56
Inspector of Milk	307 50
Interest	29,358 44
Liquor Licenses.....	171,055 00
Military Aid, etc.....	20,551 50
Moth Extermination.....	2,293 33
National Bank Tax.....	3,697 61
Parks	1,087 00
Police	13,905 22
Schools	6,573 00
Sewer Construction.....	10,151 85
Streets.....	7,748 70

General Treasury Fund Receipts—Continued

Street Railway Tax	\$10,429 69	
Watering Streets	18,337 53	
Law	95 91	
Mayor	670 00	
Supply	3 75	
Insurance	4 32	
School Houses	102 00	
Lighting	15 00	
	<hr/>	\$481,512 02
Total General Treasury Fund Revenue		\$2,299,990 34
Temporary Accounts	1,365,451 27	
Overdrafts	697 51	
Water Works	223,745 44	
	<hr/>	\$1,589,884 22
		<hr/>
		1,589,894 22
Total Receipts		<hr/>
		\$3,889,884 56

GENERAL TREASURY FUND PAYMENTS

Department Accounts	\$2,301,743 14
Temporary Loans	1,300,000 00
Transfers	65,451 27
Miscellaneous	220,204 83
	<hr/> \$3,887,399 83

Cash Balance December 31, 1910

For Unexpended Appropriations:

Law Department.....	350 00	
Huntington Hall Construction Fund	267 65	
Fire—Underground Wires	3,000 00	
Building Fund	49,708 00	
Police—Underground Wires	4,000 00	
Contagious Hospital	1,000 00	
Congress and Billerica Street....	7,244 22	
Lawrence Street Meadow Brook.	11,903 80	
Shaw Street Extension	989 84	
Shedd Playground	6,239 66	
Carney Medal Fund	200 00	
Water Works	3,517 63	
Water Works New Pump	59,514 87	
Cemetery New Gate	2,500 00	
	<hr/>	\$150,435 67
For General purposes.		50,153 48
		<hr/> 200,589 15
		<hr/> \$4,087,988 98

Schedule D

RECEIPTS AND PAYMENTS OF THE FINANCIAL
YEAR CLASSIFIED

	Receipts	Payments
* Operation and Maintenance	\$2,281,286 67	\$2,074,007 83
† New Construction	241,000 00	445,780 14
Total Cash proceedings for the year.....	\$2,522,286 67	\$2,519,787 97
‡ Trust Funds, Cemetery	2,146 62	2,160 00
§ Temporary Accounts	1,365,451 27	1,365,451 27
Total proceedings for the year	\$3,889,884 56	\$3,887,399 24

* **Operation and Maintenance** relate only to the General Treasury Fund Revenue and Payments, and do not include receipts and payments on account of loans or permanent construction.

† **Construction** relates only to General Treasury Fund Loans receipts and payments, and for permanent construction.

‡ **Trust Funds** include receipts and payments for specified purposes in which the City only acts as trustee.

§ **Temporary Accounts** are simply Journal items (duplications), receipts and payments which are temporarily held and paid out again, and show the same amounts in both receipts and payments.

TEMPORARY ACCOUNTS

	Receipts	Payments
Temporary Tax Loans	\$1,300,000 00	\$1,300,000 00
General Treasury Fund Transfers	65,451 27	65,451 27
Rebates and Refunds	818 93	818 93
	\$1,366,270 20	\$1,366,270 20

Schedule E

RECEIPTS AND PAYMENTS FOR THE CURRENT YEAR
Revenue Receipts and Payments—Non=Revenue Receipts and
Payments Grouped According to Functions

Revenue Receipts and Payments

	Revenue		Non=Revenue	
	Receipts	Payments	Receipts	Payments
1. Departmental .	\$10,260 52	\$117,539 25		
2. Protection o f Life and Pro- perty	13,519 85	350,864 69		\$21,593 82
3. Health and Sanitation...	23,323 22	86,301 74		50,593 84
4. Highways and Bridges	55,587 57	341,916 57		75,260 48
5. Charities	6,559 36	85,633 47		
6. Soldiers Bene- fits	20,644 62	40,915 48		
7. Education	8,090 78	431,173 40		5,452 46
8. Recreation ...	1,265 65	25,282 58		3,760 34
9. Unclassified...		6,058 71		
10. Public Service Enterprises .	223,784 64	221,497 16		
11. Cemeteries ...	12,293 55	7,641 74		
12. Intesest	27,211 82	137,758 78		
13. Municipal In- debtedness ..			\$ 1,556,200 00	1,589,114 20
14. Sinking Funds		30,500 00		
15. Taxes, Licenses Permits	1,928,142 98	257,936 21		
16. Refunds		599 32		
	\$ 2,333,684 56	\$ 2,141,619 10	\$ 1,556,200 00	\$ 1,745,780 14

Schedule F

Receipts and Payments divided as follows :

Receipts and Payments of Revenue

**Receipts and Payments including those of Loans and Bonds
grouped according to functions.**

1. DEPARTMENTAL

	Receipts		Payments	
	Revenue for Expenses	Non Revenue	Expenses	Non Revenue
Legislative :				
1. City Council	\$10 35		\$2,072 31	
Executive :				
2. Mayor	1 75		4,352 04	
Financial :				
3. Auditor	60 00		5,839 61	
4. Treasurer and Collector	949 07		11,484 18	
5. Assessors			13,238 69	
General Departments :				
6. City Clerk	27 11		6,510 03	
7. Clerk Committees			1,596 75	
8. Clerk Council			300 00	
9. Messenger.			17,999 66	
10. Solicitor.	95 91		5,322 41	
11. Elections	27 00		9,029 93	
12. Registrars			4,955 30	
13. State Supervisors			240 00	
14. Engineering	9,081 26		15,068 66	
15. Building Office			4,150 00	
16. Purchasing Agent ..	3 75		6,500 46	
17. Janitors, Buildings			2,091 75	
18. Insurance	4 32		3,255 22	
19. Municipal Register ...			332 2	
20. License Commissioners			3,200 00	
	\$10,260 52		\$117,539 25	

Schedule F—Continued

2. PROTECTION OF LIFE AND PROPERTY

	Receipts		Payments	
	Revenue for Expenses	Non Revenue	Expenses	Non Revenue
1. Police Department:				
a. Salaries and Wages	2,118 44		136,895 61	
b. Horses and Care ..			989 07	
c. Fuel and Light			1,268 61	
d. Equipment and Re- pair			504 43	5,600 00
e. Pensions			7,251 77	
f. Police Court Fines	7,476 06			
g. Miscellaneous Sale of Material	247 16			
h. Rent of Court Room	2,400 00			
i. Other Expenses....			2,707 97	
2. Fire Department:				
a. Salaries and Wages			135,760 38	
b. Horses and Care ..			14,836 98	
c. Fuel and Light			6,190 06	
d. Hydrant Service ..			491 71	
e. Equipment and Re- pair			7,278 05	12,115 00
f. Pensions				
g. New Buildings	60 16			3,883 82
h. Sale of Material ...	255 25			
i. Other Expenses....	44 19		1,663 53	
Militia:				
3. Rifle Range			928 95	
Inspection:				
4. Buildings	1,038 43		16,412 83	
5. Wire	90		2,565 28	
6. Sealer	563 93		2,295 91	
7. Smoke.....			99 89	
Forestry:				
8. Moth and Beetle Ex- termination	2,293 33		9,000 00	
9. Care of Trees			800 09	
All Other:				
10. Fish Warden.....			40 00	
11. Pound Keeper			5 00	
	16,519 85		350,864 69	21,598 82

Schedule F—Continued

3. HEALTH AND SANITATION

	Receipts		Payments	
	Revenue for Expenses	Non Revenue	Expenses	Non Revenue
1. Health :				
a. General Administration.....			10,167 59	
b. Other Expenses...	3 16		2,987 79	
c. Contagious Diseases	351 50		4,104 38	
Inspection :				
2. Milk.....	307 50		2,583 63	
3. Animals.....			520 25	
4. Schools.....			429 00	
Sanitation :				50,593 84
5. Sewer Maintenance . .	5,875 52		19,876 18	
6. Sewer Construction.....	10,151 85			
a. Refuse and Garbage	522 13		45,638 92	
b. Sale and use of material.....	6,043 64			
c. Miscellaneous.....	39 87			
d. Reimbursements...	28 05			
	23,323 22		86,301 74	50,593 84

Schedule F—Continued

4. HIGHWAYS AND BRIDGES

	Receipts		Payments	
	Revenue for Expenses	Non Revenue	Expenses	Non Revenue
1. Street Department:				
a. Administration			\$ 4,000 19	
b. Yard Maintenance...			14,198 84	
c. Construction streets	\$918 76		21,556 66	
d. Repairs streets			6,230 79	
e. New Paving.....	1 00		18,870 68	64,000 00
f. Macadamizing			24,510 93	
g. Cleaning streets			42,656 19	
h. Sprinkling streets ..	19,055 03		20,839 79	
i. Sidewalks and Curb-				
ing	6,634 31		5,544 13	
j. Snow removal			18,681 10	
k. Bridge repairs and				
construction	8 50		2,957 53	11,260 58
l. Sale and use of				
material	28,122 08			
m. Miscellaneous	670 22			
n. Other Expenses			62,598 00	
All others				
2. Lighting streets	15 00		98,992 84	
3. State Highway Tax			115 00	
4. Grade Crossings	162 67		163 90	
	55,587 57		341,916 57	75,260 48

Schedule F—Continued

5. CHARITIES

	Receipts		Payments	
	Revenue for Expenses	Non Revenue	Expenses	Non Revenue
1. Out Door Relief:				
a. Salaries and wages..			6,760 83	
b. Ambulance.....			3,483 54	
c. Outside relief cities.			9,999 38	
d. Other Institutions, Hospitals....			5,754 22	
e. Relief, other Cities, Towns			3,223 05	
Hospital:				
2. Hospital Maintenance...	526 22		53,412 48	
3. Hospital Improvements..			2,999 97	
Reimbursements.....				
f. Almshouse	617 79			
g. Cities and Towns ..	2,159 74			
h. State.....	2,547 77			
i. Miscellaneous	707 84			
	6,559 36		85,633 47	

6. SOLDIERS BENEFITS

General Expenses:				
1. Office.....	4 12		2,222 26	
2. State Aid	18,085 50		17,777 00	
3. Military Aid.....	1,571 00		2,946 00	
4. Soldiers Relief	984 00		16,885 22	
5. Soldiers Burials			1,085 00	
	20,644 62		40,915 48	

Schedule F—Continued

7. EDUCATION

	Receipts		Payments	
	Revenue for Expenses	Non Revenue	Expenses	Non Revenue
1. General Expenses, schools				
a. Supervision			3,000 00	
b. Other Salaries			7,965 25	
c. Other Expenses	59 10		12,443 31	
Teachers				
d. Day School			236,482 29	
e. Evening School			18,799 00	
f. Kindergardens			12,772 50	
g. Manual Training			5,954 23	
h. Text Books and Sup- plies			15,718 68	
i. Janitor Service			44,830 69	
j. Fuel and Light			19,145 01	
k. Board of Truants ...			3,610 12	
l. Furniture and Fur- nishings	102 00		968 75	
m. Repairs and Im- provements			26,483 57	3,300 00
n. New Buildings and Additions				2,152 46
o. Labor Reimburse- ments	1,356 68			
p. Tuition	6,573 00			
2. Textile School			8,000 00	
3. Library and Reading Rooms				
a. Salaries and Wages			9,980 27	
b. Books and Periodi- cals			1,666 58	
c. Lighting			986 45	
d. Binding			1,124 93	
e. Miscellaneous			1,241 77	
	8,090 78		431,173 40	5,452 46

Schedule F—Continued

8. RECREATION

	Receipts		Payments	
	Revenue for Expenses	Non Revenue	Expenses	Non Revenue
Supervision.....			1,200 00	
1. Parks and Gardens:				
a. Salaries and Wages	37 65		8,837 65	
b. Improvements and Additions... ..	.		4,790 96	3,760 34
c. Other Expenses....	141 00		4,141 00	
d. Rentals	1,087 00			
2. Playgrounds:				
f. Improvements.....			2,500 00	
Celebrations and Entertainments:				
3. Memorial Day.....			1,349 48	
4. Fourth of July.....			1,497 97	
5. Reviewing Stands.....			300 00	
6. Band Concerts.....			665 52	
	1,265 65		25,282 58	3,760 34

9. UNCLASSIFIED

1. Claims and Court Executions			5,858 71	
2. Portrait C. D Palmer...		.	200 00	
			6,058 71	

Schedule F—Continued

10. PUBLIC SERVICE ENTERPRISES

	Receipts		Payments	
	Revenue for Expenses	Non Revenue	Expenses	Non Revenue
1. Water Works:				
a. Maintenance and Operation			137,591 85	
b. New Construction ..			20,891 65	
2. New Pump			485 13	
c. Bonds and Notes paid from earnings..			15,200 00	
d. Interest on Loans ...			44,319 62	
e. Other Expenses			2,201 71	
f. Income sale of water	222,295 12			
g. Miscellaneous	1,450 32			
All Other				
3. Public Scales	39 20		807 20	
	223,784 64		221,497 16	

11. CEMETERIES

1. Cemetery Department :				
a. Supervision			1,200 00	
b. Wages			4,678 01	
c. Other Expenses			1,763 73	
d. Sale of Lots	2,878 93			
e. Care of Lots.....	4,566 50			
f. Interments and Foundations.....	2,701 50			
g. Income Perpetual Care	2,146 62			
	12,293 55		7,641 74	

Schedule F—Continued

12. INTEREST

	Receipts		Payments	
	Revenue for Expenses	Non Revenue	Expenses	Non Revenue
1. Temporary Tax Loans ..			37,827 59	
2. Loans for Gen. Purposes			94,208 73	
3. Trust Funds.....			2,160 00	
4. Perpetual Care.....			3,562 46	
Reimbursements:				
5. From Bank Deposits...	5,360 83			
6. From Taxes.....	21,850 99			
	27,211 82		137,758 78	

13. MUNICIPAL INDEBTEDNESS

1. Temporary Tax Loans..	1,300,000 00	1,300,000 00
2. Highways.....	98,400 00	49,875 00
3. Schools.....		69,030 00
4. Sewers	50,000 00	80,265 00
5. Water.	75,000 00	15,200 00
6. Building.....	10,000 00	12,740 00
7. Miscellaneous.....	26,000 00	42,004 20
	1,556,200 00	1,589,114 20

14. SINKING FUNDS

1. General from Tax Levy.		14,500 00
2. Water Works from Tax Levy		16,000 00
		30,500 00

Schedule F—Continued

15. TAXES, LICENSES AND PERMITS

	Receipts		Payments	
	Revenue for Expenses	Non Revenue	Expenses	Non Revenue
1. Taxes:				
a. Current Year City...	1,230,469 07			
b. Previous Year City.	347,009 25			
2. Street Railroad:				
c. State.....	10,429 69			
d. City.....	9,918 94			
3. All Other:				
e. Corporation.	143,213 84			
f. National Bank ...	3,697 61		10,721 80	
g. State			120,725 00	
h. County			83,726 66	
4. Licenses:				
i. Liquor Licenses....	171,000 00		42,762 75	
j. Druggists.....	51 00			
k. Fish.....	136 00			
l. Auctioneers	68 00			
m. Dog.....	3,666 56			
n Business	4,654 25			
o. Junk.....	256 00			
p. Others.....	615 77			
5. Permits:				
q. Amusements	1,294 00			
r. Marriage	1,057 00			
s Pool and Bowling ..	606 00			
	1,928,142 98		257,936 21	

16. REFUNDS

1. Abatement of Taxes After Payment.			546 16	
2. Moth and Beetle			4 10	
3 Release of Tax Titles...			49 06	
			599 32	

Schedule G—AMOUNT DUE FROM CITY ON ORDINARY CITY DEBT

1911

Loan Payable to	Date Made	Due	Present Amount of Loan	Am't of Annual Payment due 1911	Rate	Amount of Interest due payable in January - July
Sundry Persons (bonds)	July 1, 1896	1926	200,000		4	8,000 00
Lowell Institution for Savings	July 27, 1901	1911	5,950	5,950	3 1/4	193 37
Central Savings Bank	July 14, 1902	1912	1,000	500	3 1/4	32 50
Bond & Goodwin Company	July 1, 1903	1913	40,500	13,500	4	1,620 00
Central Savings Bank	July 9, 1906	1916	4,500	1,500	3 1/2	157 50
Washington Institution for Savings	July 20, 1906	1916	18,996	3,166	4 1/4	807 33
February-August						
Washington Institution for Savings	Aug. 19, 1901	1911	1,500	1,500	3 3-10	49 50
Lowell Institution for Savings	Aug. 19, 1901	1911	5,500	5,500	3 3-10	181 50
Lowell Institution for Savings	Aug. 9, 1904	1914	31,600	7,900	3 5/8	1,145 50
Lowell Institution for Savings	Aug. 7, 1906	1916	18,000	3,000	4 1/4	775 00
Washington Institution for Savings	Aug. 7, 1906	1916	9,180	1,530	4 1/4	390 15
National Life Ins. Co.	Aug. 10, 1907	1917	17,500	2,500	4 1/2	787 50
National Life Ins. Co.	Aug. 1, 1907	1917	8,750	1,250	4 1/2	393 75
National Life Ins. Co.	Aug. 1, 1907	1917	6,650	950	4 1/2	299 25
National Life Ins. Co.	Aug. 1, 1907	1917	17,500	2,500	4 1/2	787 50
Washington Institution for Savings	Aug. 24, 1907	1917	3,850	550	4 1/2	173 25
Philip Dexter	Aug. 1, 1908	1918	5,840	730	4	233 60

Philip Dexter.....	Aug. 1, 1908	1918	9,200	1,150	4	368 00
Philip Dexter.....	Aug. 1, 1908	1918	5,600	700	4	224 00
Philip Dexter.....	Aug. 1, 1908	1918	20,000	2,500	4	800 00
Philip Dexter.....	Aug. 1, 1908	1918	2,800	350	4	112 00
March-September						
Bequest of Thomas Nesmith.....	Mar. 6, 1871		25,000		6	1,500 00
Lowell Institution for Savings.....	Sept. 4, 1902	1912	11,096	5,548	3 $\frac{3}{8}$	374 49
Lowell Institution for Savings.....	Sept. 11, 1902	1912	12,331	6,165 50	3 $\frac{3}{8}$	416 17
Lowell Institution for Savings.....	Sept. 8, 1903	1913	13,350	4,450	3 $\frac{7}{8}$	517 31
Lowell Institution for Savings.....	Sept. 26, 1903	1913	7,700	2,500	3.9	292 50
Lowell Institution for Savings.....	Sept. 26, 1905	1915	41,650	8,330	3 $\frac{1}{2}$	1,457 75
Blodgett Merritt Co.	Sept 1, 1909	1919	45,000	5,000	4	1,800 00
City Trust Co.	Sept 1, 1909	1919	810	90	4	32 40
Old Colony Trust Co	Sept. 1, 1910	1920	40,400	4,040	4	1,616 00
April-October						
Bequest of Thomas Nesmith.....	April 10, 1871		1,000		6	60 00
Sundry Persons (bonds)	Oct. 1, 1890	1920	450,000		4	18,000 00
Sundry Persons (bonds)	April 1, 1891	1912	150,000		4	6,000 00
Lowell Institution for Savings.	April 6, 1905	1915	30,000	6,000	3 $\frac{3}{8}$	.911 20
Lowell Institution for Savings.....	Oct 26, 1905	1915	38,700	7,740	3 $\frac{1}{2}$	1,354 50
Lowell Institution for Savings.....	Oct. 2, 1906	1916	16,020	2,670	4 $\frac{1}{8}$	660 82

Amount Due from the City on Ordinary City Debt, 1911—Continued

Loan Payable to	Date Made	Due	Present Amount of Loan	Am't of Annual Payment due 1911	Rate	Amount of Interest due payable May - November
Bequest of Jonathan Tyler	May 10, 1879	Sept.	10,000		6	600 00
Central Savings Bank	May 4, 1901	1911	870	870	3½	15 23
Lowell Institution for Savings	May 23, 1901	1911	3,600	3,600	3¼	58 50
Washington Institution for Savings	Nov. 4, 1902	1912	1,670	835	3½	58 45
Lowell Institution for Savings	Nov. 15, 1901	1911	2,990	2,990	3.3	98 67
Washington Institution for Savings	Nov. 13, 1903	1913	2,586	862	3⅞	100 21
Lowell Institution for Savings	May 24, 1904	1914	20,000	5,000	3⅝	634 37
Lowell Institution for Savings	Nov. 5, 1904	1914	21,160	5,290	3⅝	767 05
Washington Institution for Savings	Nov. 28, 1905	1915	1,100	220	3½	38 50
Lowell Institution for Savings	May 8, 1906	1916	24,000	4,000	4	880 00
Sundry Persons (bonds)	Nov. 1, 1907	1917	81,200	11,600	4½	3,654 00
Sundry Persons (bonds)	Nov. 1, 1907	1917	4,200	600	4½	189 00
Boston Five Cents Savings Bank	May 15, 1908	1918	15,200	1,900	4	570 00
Boston Five Cents Savings Bank	May 15, 1908	1918	9,600	1,200	4	360 00
Boston Five Cents Savings Bank	May 15, 1908	1918	60,000	7,500	4	2,250 00
Boston Five Cents Savings Bank	Nov. 16, 1908	1918	92,000	11,500	4	3,680 00
Merrill Oldham & Co.	May 1, 1910	1920	50,000	5,000	4	1,900 00
Merrill Oldham & Co.	May 1, 1910	1920	68,000	6,800	4	2,584 00

						June-December
Lowell Institution for Savings	Dec. 20, 1901	1911	1,200	1,200	3.3	39 60
Lowell Institution for Savings	June 3, 1902	1912	12,780	6,390	3 $\frac{1}{4}$	311 51
Lowell Institution for Savings	Dec. 31, 1902	1912	4,000	2,000	3.55	142 00
Lowell Institution for Savings	June 1, 1903	1913	29,310	9,770	3 $\frac{5}{8}$	885 39
Lowell Institution for Savings	Dec. 31, 1903	1913	22,950	7,650	3.9	895 05
Lowell Institution for Savings	Dec. 31, 1904	1914	29,005 60	7,251 40	3 $\frac{5}{8}$	1,051 45
Lowell Institution for Savings	June 1, 1905	1915	35 750	7,150	3 $\frac{1}{2}$	1,126 12
Washington Institution for Savings	Dec. 30, 1905	1915	5,875	1,175	3 $\frac{1}{2}$	205 63
Lowell Institution for Savings	Dec. 30, 1905	1915	27,000	5,400	3 $\frac{1}{2}$	945 00
Sundry Persons (bonds)	Dec. 19, 1906	1916	42,600	7,100	4	1,704 00
Washington Institution for Savings	Dec. 29, 1906	1916	3,480	580	4	139 20
Sundry Persons (bonds)	June 1, 1907	1917	14,000	2,000	4	520 00
Sundry Persons (bonds)	June 1, 1907	1917	7 000	1,000	4	260 00
Commissioners of Sinking Funds	Dec. 5, 1907	1917	1,050	150	4 $\frac{1}{2}$	47 25
Commissioners of Sinking Funds	Dec. 14, 1907	1917	2,450	350	4 $\frac{1}{2}$	100 25
Sundry Persons (bonds)	Dec. 16, 1906	1917	52,500	7,500	4 $\frac{3}{4}$	2,493 75
Sundry Persons (bonds)	Dec. 16, 1907	1917	25,200	3,600	4 $\frac{3}{4}$	1,197 00
Sundry Persons (bonds)	Dec. 31, 1907	1917	14,000	2,000	5	700 00
Malden Savings Bank	June 10, 1908	1918	5,920	740	4	222 00
Malden Savings Bank	June 10, 1908	1918	16 000	2,000	4	600 00
Sinking Fund Commissioners	Dec. 30, 1908	1918	1,370 40	171 30	4	54 82

Amount Due from the City on Ordinary City Debt, 1911—Continued

Loan payable to	Date Made	Due	Present Amount of Loan	Am't of Annual Payment due 1911	Rate	Amount of Interest due payable in June-December
Blodgett Merritt Co	June 10, 1909	1919	108,000	12,000	3½	3,570 00
Sinking Fund Commissioners	Dec. 6, 1909	1919	1,800	200	4¼	76 50
Old Colony Trust Co.	Dec. 1, 1910	1920	2,600	260	4	104 00
Perry, Coffin & Bean.	Dec. 1, 1910	1920	20,000	2,000	4	800 00

AMOUNT DUE FROM CITY ON WATER LOANS

1911

Loan payable to	Date Made	Due	Present Amount of Loan	Am't of Annual Payment due 1911	Rate	Amount of Interest due payable in November August
Blake Bros. Co.	Nov. 1, 1881	1911	\$75,000		4	\$3,000 00
Sundry Persons (bond)	Nov. 1, 1890	1920	1,000,000		4	40,000 00
Lowell Institution for Savings.....	Nov. 9, 1909	1916	16,200	\$2,700	4 ¹ / ₈	668 25
Adams & Co.,	Dec. 1, 1910	1920	60,000	6,000	4	2,400 00

Amount of City Debt	\$2,271,290 00	Payments.....	\$267,164 20
Amount of Water Loan	1,151,200 00	Payments.....	8,700 00
Total Gross City Debt.....	\$3,422,490 00	Amount of Sinking Fund	1,030,189 95
		Total Net City Debt.....	\$2,392,300 05

Schedule H

TRUST FUNDS

(CHAP 322)

AN ACT TO PROVIDE FOR THE AUDITING OF CERTAIN TRUST FUNDS
AND ACCOUNTS*Be it enacted, etc., as follows:*

SECTION 1. It shall be the duty of city and town auditors at least once every year, and so much oftener as they may deem it necessary, to audit the accounts of the trustees of any property the principal or income of which, in whole or in part, was bequeated or given in trust for the benefit of the city or town or any part thereof, or for the benefit of the inhabitants of the city or town or of any part thereof, and to examine and estimate the funds, securities and evidences of property held by such trustees. City and town auditors shall include in their annual reports a report of such auditing and investigation; and if they discover any fraud or irregularity they shall immediately report the same to the mayor and treasurer of the city or to the selectmen or treasurer of the town.

SECTION 2. It shall be the duty of the trustees designated in Section one hereof to give city and town auditors free access to their accounts, funds, securities and evidences of property; and any such trustee who refuses to exhibit his trust accounts, funds, securities and evidences as aforesaid shall be subject to a fine of not less than fifty nor more than two hundred dollars.

SECTION 3. This act shall be construed as applying only to property held in trust for public uses. (*Approved* May 9, 1904).

Full value of all Sinking Funds Jan. 1, 1911.....	\$1,030,189 95	
Full value of all Sinking Funds Jan. 1, 1910.....	959,938 72	
		<hr/>
		\$70,251 23
		<hr/>
Value of the Water Loan Sinking Fund Jan, 1, 1911	\$625,371 04	
Value of the Water Loan Sinking Fund Jan. 1, 1910	584,580 62	
		<hr/>
		\$40,792 42
		<hr/>

TRUST FUNDS—Continued

Value of all other Sinking Funds Jan. 1, 1911....	404,816 91	
Value of all other Sinking Funds Jan. 1, 1910....	375,358 10	
		<u>29,458 81</u>
		<u>70,251 23</u>

Water Loan Sinking Fund

Value of fund Jan. 1 1911.....	540,737 67	
Securities belonging to this fund.....		539,370 40
Cash on deposit at Appleton National Bank.....		1,367 27
		<u>540,737 67</u>

High Service Water Loan Sinking Fund

Value of fund Jan. 1, 1911.....	84,635 37	
Securities belonging to this fund.....		84,000 00
Cash on deposit at Appleton National Bank.....		635 37
		<u>84,635 37</u>

City Hall and Memorial Building Fund

Value of fund Jan. 1, 1911.....	252,122 50	
Securities belonging to this fund.....		251,300 00
Cash on deposit at Appleton National Bank.....		822 50
		<u>252,122 50</u>

High School Sinking Fund

Value of fund Jan. 1, 1911.....	83,967 13	
Securities belonging to this fund.....		82,500 00
Cash on deposit at Appleton National Bank		1,467 13
		<u>83,967 13*</u>

TRUST FUNDS—Continued

New School Houses Sinking Fund

Value of fund Jan. 1, 1911	68,727 28	
Securities belonging to this fund.....		68,000 00
Cash on deposit at Appleton National Bank....		727 28
		<u>68,727 28</u>

Hapgood Wright Centennial Trust Fund

Resolution adopted by the City Council, March 14, 1876: "The sum of \$1,000.00 be accepted from Hapgood Wright, under the conditions specified by him, that the money be placed at interest for 50 years and at the end of that time the interest to be spent by the City Council (by a two third vote) for the benefit of the City or its citizens, but the original \$1,000 00 to be always kept on deposit and the interest only to be spent by the City Council at the end of each 50 years."

Value of fund Jan. 1, 1911.....	4,126 99	
Cash on deposit Lowell Institution for Savings..		828 58
Cash on deposit City Institution for Savings....		3,298 41
		<u>4,126 99</u>
Increase during the year 1911		160 22

Public Burial Ground Fund

Value of fund Jan. 1, 1911.....	60,550 00	
Savings Bank Accounts valued at.....		60,550 00

TRUST FUNDS—Continued**Thomas Nesmith Fund**

\$25,000.00. Annual interest, \$1,500.00

Resolution, numbered 57, passed by the City Council, November, 1870 ;
 "That the sum of \$25,000.00 be accepted by the City and that the interest, at the rate of 6 per cent, be paid to the trustees, and that they in turn pay to the Ministry-at-Large, or to like people, as they may decide. Said sum to be used for people in temporary need of charitable assistance without distinction of race, color or religion. Original trustees: George F. Richardson, John A. Buttrick, Owen Street, Samuel W. Stickney and Charles Hovey. In case of a vacancy, the remaining trustees shall report to the Justice of the Court, who shall appoint a successor to fill said vacancy."

Carney Medal Fund

Received of James G. Carney, in 1858 and 1859, the amount of \$200, which is to remain a perpetual debt of the city forever; the interest to be applied in payment for the "Carney Medals" to the departments of the High School (annually).

Balance Jan. 1, 1910.....	200 00	
Balance undrawn Dec. 31, 1910.....		200 00
		<u>200 00</u>

For the information of the citizens of Lowell the Auditor respectfully refers them to the "Annual Report of the School Committee," for the year 1859, where all the correspondence between the donor and the recipient may be found,

Thomas Nesmith Fund

\$1,000.00 Annual interest, \$60.00

Resolution, numbered 54, passed by the City Council, April, 1870: "That the City of Lowell be appointed trustee of the sum of \$1,000.00, and the City Treasurer is authorized to pay to the High Street Church the interest of said sum at the rate of 6 per cent for ever. Said sum to be used by the Pastor and Deacons of said Church to sustain the Sunday School and its library for the moral and religious instructions of the children."

TRUST FUNDS—Continued

Johnathan Tyler Fund

\$10,000.00 Annual interest, \$600.00

Resolutions, numbered 14 and 74, passed by the City Council, May, 1878:

“That the City of Lowell be appointed trustee of the sum of \$10,000.00 and that the City Treasurer is authorized to pay to the Ministry-at-Large the interest of said sum at the rate of 6 per cent for ever. Said sum to be used for the benefit of the worthy poor of the city. Said Ministry shall make an annual report of their dispensing said money to the City Council.”

Trust Funds Held by City

Name	Amount	Receipts	Payments
Thomas Nesmith.....	25,000 00	*	1,500 00
Thomas Nesmith.....	1,000 00	*	60 00
Johnathan Tyler.....	10,000 00	*	600 00
Hapgood Wright.....	1,000 00	†146 82	146 82
Cemetery Fund.....	60,550 00	‡2,146 62	2,160 00

John Davis Fund

Present value of fund	109,600 83	
Savings Bank Accounts.....		550 64
Bonds.....		68,795 00
Stocks:		
Railroad		15 415 00
Bank		5,862 00
Miscellaneous		13,214 00
Notes.....		2,750 00
Silverware and Jewelry.....		90 15
Cash, A. G. Stiles, City Treasurer.....		2,924 04
		<u>109,600 83</u>

* No interest received by City, but City pays 6 per cent, per resolutions.

† Interest received by City and deposited in bank, per resolution.

‡ Interest received by City and paid to Cemetery Trustees at 4 per cent, per resolution.

TRUST FUNDS—Continued**Savings Bank Book**

Central Savings Bank	550 64	
		<u>550 64</u>

Registered Bonds

Par Value	Name	Due		Present Value
10,000 00	City of Boston	1919	3½	9,750 00
11,000 00	Boston & Maine R. R. ...	1944	4½	11,495 00
4,000 00	Boston & Albany R. R. ...	1952	3½	3,560 00
10,000 00	N. Y., N. H. & H. R. R. .	1914	4	10,000 00
10,000 00	N. Y., N. H. & H. R. R. .	1954	4	9,900 00
10,000 00	Illinois Central R. R.	1952	3½	8,950 00
10,000 00	Boston & Maine R. R.	1926	4	9,900 00
5,000 00	Boston & Maine R. R.	1952	4½	5,240 00
				<u>68,795 00</u>

Stocks

Par Value	No. of Shares	Name		Present Value
100	50	Merrimack Manufacturing Co.	55	2,750 00
100	3	Lowell Bleachery	140	420 00
100	12	Middlesex Company	50	600 00
100	49	Bigelow Carpet Company	141	6,909 00
100	6	Nat. Bank of Commerce	173½	1,041 00
100	9	Appleton Nat. Bank, Lowell	104	936 00
100	3	Old Lowell Nat. Bank, Lowell	101	303 00
100	2	Wamesit Nat. Bank, Lowell	101	202 00
100	11	Union Nat. Bank, Lowell	180	1,980 00
100	10	First Nat. Bank, West Newton	140	1,400 00
100	41	Boston & Maine R. R. (Common) ...	149	6,109 00
100	39	Boston & Albany R. R.	228	8,892 00
100	1	Nashua & Lowell R. R.	245	245 00
100	1	Concord & Montreal R. R., Class 4...	169	169 00
100	3	Lowell Gas Light Co.	285	855 00
100	12	American Tel. & Tel Co.	140	1,680 00
100	6	Hudson River Telephone Co.	38	
				<u>34,491 00</u>

TRUST FUNDS—Continued

		Notes	
Kind	Appraised	Present Value	
Three Mortgage Notes	{ 2,000 00 }	2,750 00	
	{ 650 00 }		
	{ 100 00 }		
Silverware and Jewelry.....			2,750 00
Cash, A. G. Stiles, City Treasurer, April 1, 1911.			90 15
			2,924 04
			<u>109,600 83</u>

I hereby certify that this department has examined all trust funds, the accounts and securities belonging to them held for public uses, and find them correct.

Attest: CHAS. D. PAIGE,

City Auditor

April 10, 1911

Schedule I

**PROPERTY OWNED BY THE CITY AND VALUATION OF
SAME AS RELATIVE TO THE CITY DEBT**

VALUATION OF CITY PROPERTY

Buildings

City Hall	410,000	
Memorial Building	200,000	
Police Station	88,000	
City Scales.....	750	
Public Landing Police Stable	9 500	
Lands and Building on Fletcher St. ..	3,000	
Lands and Buildings on Fletcher, Cross. Broadway and Lagrange Sts.	100,000	
City Farm and Buildings	200,000	
Rifle Range	14,000	
		<hr/>
		1,025,250 00

Fire Engine Houses

Branch Street	22 000	
Central Street	11,000	
Fletcher Street.....	18,000	
Fourth Street	15,000	
Gorham Street	27,000	
High Street	24,000	
Lincoln Street.....	5,500	
Lawrence Street.....	25,000	
Merrimack Street	5,000	
Mammoth Road	15 000	
Palmer Street	90 000	
Westford Street.....	18,000	
Warren Street	11,000	
West Sixth Street.	38,000	
		<hr/>
		326,000 00

School Houses

High School	250,000
High School Annex	105,000
Bartlett (old)....	25,000
Bartlett (new)	108 000
Butler	63,000
Colburn	25 000
Edson	25,000

VALUATION OF CITY PROPERTY—Continued

School Houses—Continued

Franklin	25 000
Green	105,000
Highland	67,000
Lincoln	77,000
Moody (new).....	80,000
Moody (old)	20,000
Mann	25,000
Pawtucket	53,000
Varnum	110,000
Washington	90,000

Primary Schools :—

Oakland	12,000
Powell Street	8,000
Plain Street	21,000
London Street Annex....	1,000
London Street	5,000
School Street	7,500
Pond Street	6,000
High Street	9 000
Carter Street.....	52,000
Fayette Street	3,500
Cross Street	24,000
Billings Street	16,000
Cabot Street	23,500
Middlesex Village (old)	2,000
Middlesex Village (new)	16,000
West Sixth Street	7,000
Mammoth Road	4,000
Lakeview Avenue	8,000
Ames Street	9,500
Tenth Street	9,000
Favor Street.....	28,000
Cottage Street	4,7 00
Charles Street	20,000
Training	31,000
Cheever Street	12,000
Chapel Street	4,000
Central Street ...	13,500
Howard Street	5,000
Worthen Street	25,000
Lyons Street	20,000
Dover Street	13,500
Morrill Street	19,000
Agawam Street	9,000

VALUATION OF CITY PROPERTY—Continued

School Houses—Continued

Grand Street.....	5,000	
Kirk Street	18,000	
Weed Street	10,500	
Lexington Avenue	10,000	
Moody Street	20,000	
Pine Street.....	23,000	
Riverside	15,000	
Greenhalge School	74,200	
Lyons Street Annex	5,400	
		\$1,959,750 00

Park Department

	Aeres	
The Rogers Fort Hill Park.....	34.40	150,000
The South Common	22.48	200,000
The North Common	11.39	100,000
Tyler Park	1.81	8,000
Belvidere Park	1.77	20,000
Mt. Vernon Park	0.50	4,350
Varnum Park	0.135	6,000
Monument Square	0.092	15,000
Penniman Square	0.051	450
Lincoln Square	0.016	200
Hovey Square... ..	0.010	50
Mansur Square	0.040	150
Water Works Square	0.047	500
Coburn Square	0.252	1,000
Hutchinson Square	0.037	150
Lenox Square	0.181	1,500
Franklin Square	0.058	1,500
Princeton Square	0.028	150
Middlesex Square	0.034	200
Lincoln Playground	1.525	6,000
Fayette St. Playground.....	0.170	2,000
Varnum Ave., Riverbank.....	0.456	1 500
Colonial Ave., Riverbank	3.50	2,000
Glacial Oval.....		100
City Hall and Memorial Hall Grounds	0.50	65,700
Lincoln School Grounds	1.02	4,445
Highland School Grounds	1.24	5,392
Greenhalge School Grounds	2.30	10,000
Moody School Grounds	1.18	7,684
Riverside School Grounds.....	1.05	2,231
Shedd Playground.....	56.00	11,200
Total.....	142.272	623,057 00

LAND OWNED BY THE CITY FOR BURIAL PURPOSES

Date	Location	Grantee	Area	Price	Grantor
Nov. 5, 1810	School St. ‡1	Inhabitants of Chelmsford	1 acre 23 rods	23.00	Joel Spaulding
Mar. 31, 1832	Gorham St. ‡2 see below	136 rods in Chelmsford	4 acres 81 rods	428.00	Simon and Susanna Parker
Nov. 16, 1846	" ‡3		30 acres	1,500.00	William and Hannah Spencer
Nov. 27, 1893	" ‡3	Taken by resolution, Nov. 17, 1893. J. J. Pickman, Mayor	{ 112,980 sq. ft. 13,846 " 10 527 " 137,353 " or 3 1 acres	{ 4,236.75 692.30 526.35	{ Mary and John Gannon William B. Spaulding J. J. Donovan
1893	" ‡3	Taken by resolution, Sept. 10, 1891, Geo. W. Fifield, Mayor	{ 44,139 sq. ft. 88,428 " 133,606 " 266.173 " or 6.1 acres	{ (a) 1,800.00 " 3,290.00 " 6,056.95	{ Seven Ohlson Charles D. Starbard William Manning
July 20 1893	" ‡3 annex			50.00	Seven Ohlson
1899	" ‡3		18,972 acres	5,691.60	Chas. W and Sarah Swan
Dec. 17, 1877	" *		7 acres	2,000.00	T. McOwen

‡1 is the Cemetery on School Street.

‡2 is the old Cemetery on Gorham Street.

‡3 is the new Cemetery on Gorham Street, known as the Edison Cemetery

* Jan. 1878, \$400.00 was returned to the City on purchase McOwen land, reducing cost to \$1,600.

(a) Paid on execution.

VALUATION

School Street	8 000
Gorham Street	35 000
	<hr/> 43,000

Miscellaneous Real Estate

Lot of Land on Chelmsford Street	5,000	
Lot of Land on Fletcher and Bowers Street	20,000	
Lot of Land on Tenth Street	5,000	
Cremator	10,000	
Rifle Range, Dracut	2,700	
Harris Land, Dracut, 28 acres	600	
Parker Land, Dracut, 20 acres	1,400	
Hildreth Land, Dracut, 17 acres	500	
Meadow Land, Dracut, 5 acres	275	
Swan Land, Dracut, 5 acres	200	
Hamblett Land, Wigginvill, 2 acres	400	
Clark Road, Gravel Bank, 3 acres	900	
		49,175 00

WATER WORKS

The Real Estate and Personal Property belonging to the City, occupied and used by Water Works	4,375,888	4,375,888 00
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**Personal Property Owned by the City in Charge of the
Several Departments**

Auditor	650
City Clerk	550
City Treasurer	700
City Weigher	250
City Sealer	250
City Messenger	1,250
City Cemeteries	1,600
Clerk of Committees	200
Engineering	3,400
Elections	1,150
Fire Department	185,600
Health	10,300
Inspector of Milk	900
Inspector of Wires	650
Law	3,100
Library	70,500
Mayor	500
Charity, Outdoor Relief	4,000
Chariety and Almshouse	27,000

VALUATION OF CITY PROPERTY—Continued

Personal Property Owned by the City—Continued

Police	31,200	
Public Buildings	15,100	
Parks	4,825	
Registrars	50	
Schools	57,700	
Streets	42,800	
Sewers	23,315	
State Aid	250	
Supply	550	
Watering Streets	7,450	
Bell and Clock, High St. Church	1,000	
Lighting	17,000	
Boulevard	3,100	
	<hr/>	516,890 00

RECAPITULATION OF VALUATION OF CITY PROPERTY
AND CITY DEBT

Buildings	1,025,250	
Fire Engine Houses	326,000	
School Houses	1,959,750	
Park Department	623,057	
Miscellaneous Real Estate	49,175	
Water Works	4,375,888	
Cemeteries	43,000	
Personal Property	516,890	
Total Valuation	<hr/>	8,919,010 00
Gross City Debt	3,422,490 00	
Sinking Funds for Payment	1,030,189 95	
	<hr/>	
Gross City Debts less Sinking Funds		2,392,300 05
		<hr/>
Excess in Valuation of City Prop- erties over Gross City Debt		6,526,709 95
		<hr/>

Schedule I

**OUTSTANDING ASSESSMENTS TABLES OF EXPENDI-
TURES INSURANCE ON CITY PROPRETY
OTHER INFORMATION**

Amount of Outstanding Taxes and other Assessments Due the City

TAXES

1899	.....	492 98	
1901	.....	15,800 69	
1902	.....	18,135 93	
1903	.....	14,116 83	
1904	.....	13,544 90	
1905	.....	13,386 50	
1906	.....	14,345 38	
1907	.....	14,607 22	
1908	.....	13,241 46	
1909	.....	185,198 72	
1910	.....	404,831 01	
			707,701 62

STREET WATERING ASSESSMENTS

1908	.....	77 79	
1909	.....	2,716 86	
1910	.....	5,750 85	
			8,545 50

SEWER ASSESSMENTS

1885	.....	284 88	
1894	.....	66 80	
1895	.....	52 15	
1896	.....	190 66	
1898	.....	432 32	
1900	.....	16 53	
1902	.....	180 49	
1903	.....	237 28	
1906	.....	173 13	
1908	.....	202 01	
1909	.....	5,503 19	
1910	.....	7,913 15	
			15,252 59

SIDEWALK ASSESSMENTS

1903	385 89	
1907	2 65	
1910	2,279 06	
	<hr/>	2,667 60

MOTH ASSESSMENTS

1907	9 79	
1908	1 25	
1909	634 60	
1910	505 85	
	<hr/>	1,151 45

DEPARTMENTS

Hospital	1,612 43	
O. D. Rel.	1,160 79	
Schools	320 00	
Police	57 25	
Building	102 00	
School Houses.....	11 00	
Streets.....	970 26	
Sewers.	116 70	
Health	80 00	
Wires	18 00	
Cemetery	1,487 00	
	<hr/>	5,935 43

Total amount of Outstanding Assessments..

741,254 19

VALUATION OF REAL ESTATE AND PERSONAL PROPERTY

WITH TAX RATE

Year	Polls	Personal	Real Estate	Total	Rate	Non-Resident Bank Stock	Grand Total Tax
1890	20,021	17,037,462	45,316,150	62,353,612	17 00	17,096 24	1,117,188 21
1891	20,931	17,535,390	46,552,885	64,088,275	15 60	15,956 07	1,057,638 66
1892	22,689	17,213,834	47,503,470	64,717,304	16 80	17,616 16	1,150,506 87
1893	23,511	18,004,970	50,851,009	68,856,570	16 40	17,397 53	1,193,667 27
1894	23,304	17,046,966	52,044,570	69,091,536	17 40	16,786 71	1,265,587 45
1895	23,735	16,526,492	52,359,240	68,885,732	18 00	17,557 16	1,304,970 34
1896	25,320	15,967,762	53,942,710	69,910,472	15 00	14,941 02	1,114,238 10
1897	25,140	15,709,260	54,680,020	70,389,280	17 40	17,302 47	1,292,355 95
1898	24,526	15,350,323	55,626,980	70,977,303	18 00	17,161 06	1,343,804 51
1899	24,882	15,374,232	55,881,355	71,255,587	19 60	18,366 73	1,469,642 32
1900	25,837	15,497,630	56,031,885	71,529,515	18 80	17,330 59	1,413,759 47
1901	25,059	15,425,843	56,248,745	71,674,588	18 60	16,449 04	1,399,714 38
1902	25,263	15,194,442	56,709,315	71,903,757	19 60	10,974 00	1,470,813 64
1903	24,559	15,178,418	56,825,610	72,004,028	20 40	12,054 30	1,530,054 47
1904	25,555	14,841,767	56,773,140	71,614,907	20 00	11,239 36	1,494,647 50
1905	26,087	14,433,923	57,211,795	71,645,718	20 20	12,522 12	1,511,939 62
1906	25,688	15,392,795	58,932,980	74,325,775	19 60	12,149 35	1,520,310 55
1907	25,181	16,763,821	59,690,910	75,454,738	19 40	12,125 23	1,526,309 15
1908	25,118	17,268,891	60,590,000	77,858,891	20 40	10,196 39	1,648,753 78
1909	26,460	17,880,477	61,298,360	79,695,960	19 60	10,174 81	1,614,960 82
1910	27,196	17,927,358 85	62,167,445	80,094,803	19 60	10,749 45	1,634,999 61

Loans Negotiated by the City since 1900, how expended

Year	For Waterworks	For Current Expenses	For Permanent Improvements	Total Loans
1900	75,000 00		213,500 00	288,500 00
1901		40,000 00	216,100 00	256,100 00
1902		26,500 00	196,385 00	222,885 00
1903		43,860 00	343,460 00	387,320 00
1904		113,716 00	140,698 00	254,414 00
1905		165,500 00	194,650 00	360,150 00
1906	27,000 00	94,100 00	126,360 00	247,460 00
1907		136,160 00	239,340 00	365,500 00
1908		131,413 00	173,000 00	304,413 00
1909			172,900 00	172,900 00
1910	60,000 00		181,000 00	241,000 00

Expenditure, Tax Rate, Valuation from 1860

Year	Expenditures	Tax Rate	Total City Valuation
1860	267,192 07	8 40	22,155,176 00
1865	756,342 81	14 60	21,076,360 00
1870	778,636 03	13 90	25,972,488 00
1875	1,162,922 95	16 20	38,690,495 00
1880	1,398,683 48	16 20	41,102,016 00
1885	1,833,483 69	16 00	51,351,780 00
1890	3,613,584 04	17 00	62,353,612 00
1895	2,903,410 60	18 00	68,885,732 00
1900	3,353,844 41	18 80	71,529,515 00
1905	3,738,502 84	20 20	71,645,718 00
1906	3,795,000 75	19 60	74,945,640 00
1907	3,718,874 34	19 40	76,079,750 00
1908	4,046,987 96	20 40	77,858,891 85
1909	3,791,607 95	19 60	79,695,960 00
1910	3,887,399 24	19 60	80,392,890 00

INSURANCE ON CITY PROPERTY

Boilers	55,000 00
Cemetery	2,500 00
City Hospital Buildings	51,000 00
City Hall	125,000 00
City Hall Contents	20,000 00
City Hall and Memorial Building	40,000 00
School Buildings	298,820 00
Memorial Building	105,000 00
Memorial Building Contents	40,000 00
Park Department	22,000 00
City Hall Portraits	10,000 00
Rifle Range	3,000 00
Street Department	10,000 00
Miscellaneous	27,400 00

COST OF NEW WASHINGTON SCHOOL HOUSE

Balance of appropriation on hand Jan. 1, 1910	2,178 87
Expended in 1910	2,152 46
	<hr/>
Balance returned to treasury fund	26 41
Total cost of the George Washington school house, including \$2,200 for land	89,700 00

PAYMENTS TO BE MADE TO SINKING FUNDS IN 1911

City Hall and Memorial Buildings, due 1920....	7,500 00	450,000 00
High School, due 1921	3,000 00	150,000 00
New School Houses, due 1926	4,000 00	200,000 00
Water Loans, due 1920	16,000 00	1,000,000 00
	<hr/>	<hr/>
	30,500 00	1,800,000 00

PROPERTY EXEMPT FROM TAXATION

	Personal Valuation	Real Estate Valuation	Totals
Literary Institutions	140,846 90	466,895 00	607,741 90
Temperance Institutions	3,365 85	16,350 00	19,715 85
Benevolent Institutions	35,423 62	97,750 00	133,173 62
Charitable Institutions	873,222 77	487,440 00	1,360,662 77
Scientific Institutions	406 420 29	486,650 00	893,070 29
Houses of Religious Wor- ship		2,322,750 00	2,322,750 00
	<hr/>	<hr/>	<hr/>
	1,459,279 43	3,877,835 00	5,337,114 43

The total real estate area exempt, 115 806.1000 acres.

GENERAL TREASURY FUND TAXES, 1910

Val. of Real Estate.....	62,167,445 00	@ 19 60 per thousand	1,218,481 92
Val. of Personal Property	17,927,358 85	@ 19 60 per thousand	351,376 24
	<u>80,094,803 85</u>		<u>1,569,858 16</u>
27 196 Polls		@ 2 00	54,392 00.
Non-Resident Bank Shares	548,441 15	@ 19 60 per thousand	10,749 45
Total Valuation	80,643,245 00	Total Taxes	1,634,999 61

Appropriations:

City.....	1,394 300 00	
Textile School.....	8 000 00	
State Tax	120,725 00	
Highway Tax	115 00	
County Tax	83,726 66	
	<u>1,606,866 66</u>	
Overlayings	11,268 54	
Supplementary Tax.	6,114 96	
Non-Resident Bank Tax	10,749 45	
	<u>1,634,999 61</u>	<u>1,634,999 61</u>

Val. of Real Estate, 1910.....	62,167,445 00	
Val. of Real Estate, 1909.....	61,296,360 00	
	<u>871,085 00</u>	
Val. of Personal Property 1910	17,927,358 85	
Val. of Personal Property 1909	17,880,477 18	
	<u>46,881 67</u>	
Increase.....		917,966 67

Schedule J**CITY TREASURY REPORT****CEMETERY TRUST FUND REPORT****COMMISSIONERS OF SINKING FUND REPORT**

EDWIN S. MORSE & COMPANY
AUDITORS-EXAMINERS-ACCOUNTANTS
BOSTON, MASS.

UNIFORM MUNICIPAL ACCOUNTING
A SPECIALTY

APRIL 15, 1911

HON JOHN F. MEEHAN, Mayor,
City of Lowell, Massachusetts.

DEAR SIR:—

In accordance with the request made of us we have audited the books and accounts of your City Treasurer and report thereon as follows :

We balanced the cash as found on March 16th, 1911, and having obtained from the banks certificates of balances and the checks which had come in to that time reconciled the bank accounts with the cash book of the City Treasurer. We found the cash on hand and the balances in the banks to be as shown on the books and having verified all the footings for the past year, since our previous audit, we certify to the correctness of the cash account; we also certify that there were adequate vouchers for all payments for the year as shown to have been made since our last report.

We also verified the receipts and payments for the year with the reports for the same to the City auditor and found that they had all been correctly reported to and entered by the City Auditor upon his books.

We examined the receipts for taxes for the year 1908-1910, inclusive as shown on the books of the City Treasurer and Collector and the reports of the same to the City Auditor, and from that examination would report that all collections as shown to have been made were correctly reported to the City Auditor and accurately entered upon his books.

Our examination of the collections of the Sidewalk and Sewer assessments assured us that they were correctly reported as made and that the books of the City Treasurer and the City Auditor agree as to payments made and balances due on those assessments.

We also carefully verified the securities and cash balances as shown in the several trust and special funds which are in the custody of the City Treasurer, and in each instance we found the securities and cash to be correct as shown by the statements which were submitted by the Treasurer and the Sinking Fund Commissioners.

In 1909 we called attention to the matter of uncollected taxes for the years 1901-1905, inclusive, amounting to about \$70,000.00; in 1910 we again mentioned the same condition as to the taxes of 1906 and 1907, and that the uncollected taxes for the seven years above named amounted to about \$105,000.00; we now notice that the same condition obtains for the taxes for 1908, and that the amount uncollected is nearly \$120,000.00, for the years 1901-1908, inclusive. We believe that substantially all of those taxes are uncollectable and we repeat the statement made last year that they are artificial assets and should be disposed of in a proper and legal manner.

Respectfully submitted,

EDWIN S MORSE & CO.

Public Accountants

ACCOUNT OF THE CITY TREASURER AND COLLECTOR OF TAXES FOR THE YEAR 1910

LOWELL, MASS., January 1, 1911

To the Honorable the City Council,

GENTLEMEN:

I have the honor to submit the following Report of the Receipts and Expenditures of the City of Lowell for the financial year 1910.

Monthly receipts as follows:

January	86,104 93	
February	240,626 00	
March	191,827 40	
April	358,317 69	
May	189,245 85	
June	77,238 44	
July	887,380 46	
August	123,225 78	
September	131,215 16	
October	1,118,540 24	
November	261,562 39	
December	159,148 95	
		<hr/>
		3,824,433 29
Cash bal. Jan. 1, 1910.....		198,103 83
		<hr/>
		4,022,537 12
		<hr/>

Monthly payments as follows:

January	66,451 69	
February	140,298 15	
March	145,347 85	
April	173,821 97	
May	239,524 82	
June	226,915 81	
July	880,442 09	
August	190,900 69	
September	178,154 95	
October	266,081 77	
November	989,433 93	
December	324,574 25	
		<hr/>
		3,821,947 97
Cash bal. Dec. 31, 1910.....		200,589 15
		<hr/>
		4,022,537 12
		<hr/>

Respectfully submitted,

ANDREW G. STILES,

City Treasurer and Collector of Taxes

STATEMENT OF CITY TREASURER RELATING TO SPECIAL FUNDS FOR CARE OF PUBLIC BURIAL GROUNDS

LOWELL, MASS., Jan. 1, 1911

To the Honorable the City Council of Lowell,

GENTLEMEN :

I have the honor to submit the following statement of special funds in my hands, deposited for perpetual care of lots in the public burial grounds of the City of Lowell :

On hand Jan. 1, 1910.....	60,550 00
Received during the year from	
L. H. Lindsay	100 00
Wm. S. Irish.....	100 00
Eliza J. Draper	100 00
Margaret C. Turnbull	100 00
N. W. Matthews.....	100 00
John F. Sutcliffe.....	100 00
John Taylor.....	100 00
Claude M. Hamilton.....	200 00
Thomas Doole.....	100 00
George H. McElroy	125 00
Francis D. Munn, Jr.....	200 00
Howard Taylor	100 00
E. A. P. Marshall	100 00
Jas P. Ramsey and Horace C. Page, Exrs.	100 00
Mary Fenderson	100 00
Isabelle E. Hanchette and Emma F. Hill	100 00
Frank Parker.....	100 00
Solomon McElmon	100 00
Amanda C. McLaughlin.....	100 00
William A. Carter	100 00
Benjamin Carter.....	100 00
Mary Popplewell.....	100 00
Ada S. Fowler.....	100 00
Ellen Avery.....	100 00
Martha Chadwick	100 00
Chas. H. Conant, Exr.	300 00
Frederick J. White	100 00
Grace L. Sargent.....	100 00
Mrs. E. R. Henry.....	100 00
Mrs. Eliza A. Fisher.	100 00
Wm. L. Abbott.....	100 00
Samuel C. Mussey.....	100 00
Lydia O. St. John.....	100 00
Nelson Brown.....	100 00

Est. Mary A. Seymour	100 00	
J. J. Colton, Adm.	100 00	
Mary Crossland.....	100 00	
Christian E. Pihl, Adm.....	100 00	
Chas. E. Jameson	200 00	
Byam B. Johnson	100 00	
Mrs. A. E. Howland.....	100 00	
Herman R. Morrison.....	100 00	
Flora E. Dexter.....	100 00	
Sarah F. Johnson.....	150 00	
Edith F. Maker.....	100 00	
Josiah Doole	100 00	
Catherine J. Tilton.....	100 00	
Heirs Charlotte Duff....	100 00	
Nellie L. Wheeler.....	200 00	
Harry J. Boardman.....	100 00	
		5,675 00
		<u>66,225 00</u>

The following amounts are invested as follows :

City Institution for Savings	7,600 00	
Washington Savings Institution	8,550 00	
Savings Dept. Traders Nat. Bank ..	7,925 00	
Merrimack River Savings Bank.....	8,100 00	
Lowell Institution for Savings.	8,375 00	
Central Savings Bank	9,000 00	
Lowell Five Cent Savings Bank.....	8,775 00	
Mechanics Savings Bank	7,900 00	
		66,225 00

Respectfully submitted,

ANDREW G. STILES,

City Treasurer.

REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS FOR THE YEAR 1910

LOWELL, MASS., January 1, 1911

To the Honorable the City Council of Lowell,

GENTLEMEN:

The Commissioners of Sinking Funds of the City of Lowell have the honor to submit the following report of the several Sinking Funds of said City and of the Hapgood Wright Centennial Trust Fund for the year 1910.

Full value of all Sinking Funds, Jan. 1, 1911	1,030,189 95	
Full value of all Sinking Funds, Jan. 1, 1910	959,938 72	
	<hr/>	
Increase during the year 1910		70,251 23
Value of the Water Loan Sinking Funds, Jan. 1, '11	625,373 04	
Value of the Water Loan Sinking Funds, Jan., 1, '10	584,580 62	
	<hr/>	
Increase during the year 1910		40,792 42
Value of all other Sinking Funds, Jan. 1, 1911	404,816 91	
Value of all other Sinking Funds, Jan. 1, 1910 ...	375 353 10	
	<hr/>	
Increase during the year 1910		29,458 81
		<hr/>
		70,251 23
Value of the Hapgood Wright Centennial Trust Fund Jan. 1, 1911	4,126 99	
Value of the Hapgood Wright Centennial Trust Fund Jan. 1, 1910	3,966 77	
	<hr/>	
Increase during the year 1910		160 22
		<hr/>

A Statement of the receipts, payments and present value of the several Sinking Funds and a list of the securities in each fund follows:

WATER LOAN SINKING FUND

	Securities	Cash	Total
On hand January 1, 1910	503,541 70	140 56	503,682 26
Received during 1910 :			
Cash-Annual Appropriation		16,000 00	
Income on Investments		22,337 91	
Income on Bank Deposits		215 28	
Securities matured.....		1,171 30	
Securities bought in 1910	37,000 00		
		39,865 05	
Paid for Securities in 1910		38,497 78	
On hand January 1, 1911	539,370 40	1,367 27	540,737 67
Increase during 1910			37,055 41

Securities belonging to this Fund :

4 City of Lewiston, coupon bonds, 5 per cent....	4,000 00
6 Town of Sharon, coupon bonds, 4 per cent ...	6,000 00
12 Town of Athol, coupon bonds, 4 per cent	12,000 00
15 City of Portsmouth, coupon bonds, 4 per cent.	15,000 00
14 City of Waterville, coupon bonds, 4 per cent..	14,000 00
1 City of Boston, reg. bond, 4 per cent.....	61,000 00
5 City of Saginaw, coupon bonds, 4 per cent ...	5,000 00
15 Fitchburg R. R., coupon bonds, 4 per cent....	15,000 00
8 C. B. & Q. R. R., coupon bonds, 4 per cent ...	8,000 00
4 Illinois Central R. R., coupon bonds, 4 per cent	4,000 00
1 Boston & Maine R. R., reg. bond, 4½ per cent	10,000 00
30 No. Western Union R. R., coupon bonds, 7 per cent	15,000 00
9 N. Y. Lack. & West. R. R., coupon bonds, 6 per cent	9,000 00
48 Town of Northfield, coupon bonds, 3½ per cent	24,000 00
3 Boston & Maine R. R., coupon bonds, 4 per cent	3,000 00
50 Lowell & Suburban St. Ry., coupon bonds, 5 per cent.....	50,000 00
2 St. Johnsbury & Lake Champlain R. R., coupon bonds, 5 per cent	2,000 00
15 Lynn & Boston St. R. R., coupon bonds, 5 per cent	15,000 00

	Cash	Total
20 Illinois Central R. R., coupon bonds, 3½ per cent	20,000 00	
44 N. Y. N. H. & H. R. R., coupon bonds, 4 per cent	44,000 00	
25 Boston Elevator, coupon bonds, 4 per cent....	25,000 00	
8 C. B. & Q. R. R., coupon bonds, 4 per cent....	8,000 00	
15 Boston & Maine R. R., coupon bonds, 4 per cent	15,000 00	
1 Town of Milrose, coupon bonds, 4 per cent....	1,000 00	
1 City of New Bedford, reg. bond, 5 per cent ...	28,000 00	
2 City of Lowell, coupon bonds, 4 per cent	2,000 00	
6 City of Dover, coupon bonds, 4 per cent	6,000 00	
3 City of Boston, reg. bonds, 3½ per cent.....	15,000 00	
15 Delaware & Hudson, coupon bonds, 4 per cent	15,000 00	
6 Milwaukee & Lake Shore R. R., coupon bonds, 6 per cent.....	6,000 00	
10 Am. Tel. & Tel. Co., coupon bonds, 4 per cent	10,000 00	
1 City of Lowell, serial note, 4 per cent	1,370 40	
1 Chicago & No. West, reg. bond, 4 per cent ...	5,000 00	
1 Town of Lexington, reg. bond, 4 per cent	4,000 00	
25 Delaware & Hudson, reg. bonds, 7 per cent ...	25,000 00	
20 Worcester Consolidated St. R. R., coupon bonds, 5 per cent.	20,000 00	
15 City of Chicago, coupon bonds, 4 per cent	15,000 00	
2 City of Lowell, coupon bonds, 4 per cent	2,000 00	
	<hr/>	539,370 40
Cash on deposit in Appleton National Bank		1,367 27
		<hr/>
		540,737 67

HIGH SERVICE WATER LOAN SINKING FUND

	Securities	Cash	Total
On hand Jan. 1, 1910.....	80,000 00	898 36	80,898 36
Received during 1910:			
Income on Investments		3,560 00	
Income on Bank Deposits		30 12	
Securities bought in 1910	4,000 00		
		<hr/>	
		4,488 48	
Paid for Securities in 1910		3,853 11	
		<hr/>	
On hand Jan. 1, 1911.....	84,000 00	635 37	84,635 37
		<hr/>	
Increase during the year 1910....			3,737 01

Securities belonging to this fund :

	Cash	Total
2 Town of Beverley, coupon bonds, 4 per cent ..	2,000 00	
1 City of Portsmouth, coupon bonds, 4 per cent.	1,000 00	
4 C. B. & Q. R. R., coupon bonds, 4 per cent....	4,000 00	
7 Winona & St. Peter R. R., coupon bonds, 7 per cent	7,000 00	
2 N. Y. Lack. & West. R. R., coupon bonds, 6 per cent.....	2,000 00	
1 Boston & Maine R. R., coupon bonds, 4 per cent	1,000 00	
2 Lowell & Suburban St. R. R., coupon bonds, 5 per cent.....	2,000 00	
5 N. Y., N. H. & H. R. R., coupon bonds, 4 per cent	5,000 00	
10 Boston Elevated, coupon bonds, 4 per cent ...	10,000 00	
16 N. Y., N. H. & H. R. R., coupon bonds, 4 per cent	16,000 00	
6 C. B. & Q. R. R., coupon bonds, 4 per cent....	6,000 00	
7 N. Y., N. H. & H. R. R., coupon notes, 5 per cent	7,000 00	
5 Town of Melrose, coupon bonds, 4 per cent ...	5,000 00	
6 Worcester, Nashua & Rochester R. R., coupon bonds, 4 per cent	6,000 00	
2 Boston & Lowell R. R., coupon bonds, 4 per cent	2,000 00	
6 American Tel. & Tel., coupon bonds, 4 per cent	6,000 00	
2 City of Everett, coupon bonds, 4 per cent	2,000 00	
	<hr/>	84,000 00
Cash on deposit in Appleton National Bank		635 37
		<hr/>
		84,635 37

CITY HALL AND MEMORIAL BUILDING SINKING FUND

	Securities	Cash	Total
On hand Jan. 1, 1910.....	235,000 00	353 23	235,353 28
Received during 1910 :			
Cash-Annual Appropriation.....		7,500 00	
Income on Investments		9,935 00	
Income on Bank Deposits		86 05	
Securities matured in 1910.....		700 00	
Securities bought in 1910	17,000 00		
		18,574 33	
Paid for securities in 1910		17,751 83	
On hand Jan. 1, 1911.	251,300 00	822 50	252,122 50
			16,769 22

Securities belonging to this fund :

5 City of Brockton coupon bonds, 4 per cent.	5,000 00
1 Town of Reading coupon bonds, 4 per cent.	1,000 00
4 Town of Wrentham coupon bonds, 4 per cent. ..	4,000 00
9 Town of Arlington coupon bonds, 4 per cent. ...	9,000 00
8 Town of Stoughton coupon bonds, 4 per cent. ..	8,000 00
3 City of Saginaw coupon bonds, 4 per cent.	3,000 00
6 Fitchburg R. R. coupon bonds, 4 per cent.	6,000 00
1 City of Boston reg. bond, 4 per cent.	21,000 00
1 City of Brockton reg. bond, 4 per cent.	1,000 00
10 C. B. & Q. R. R. coupon bonds, 4 per cent.	10,000 00
19 Illinois Central R. R. coupon bonds, 4 per cent.	19,000 00
7 N. Y. Lack. & West. R. R. coupon bonds, 6 per cent.	7,000 00
7 City of Indianapolis coupon bonds, 4 per cent.	7,000 00
1 City of Brockton reg. bond, 4 per cent.	1,000 00
3 Town of Northfield coupon bonds, 3½ per cent.	1,500 00
11 Winona & St. Peter R. R. coupon bonds, 7 per cent.	11,000 00
6 City of Malden coupon bonds, 4 per cent.	6,000 00
10 Lynn & Boston St. R. R. coupon bonds, 5 per cent.	10,000 00

	Cash	Total
5 N. Y., N. H. & H. R. R. coupon bonds, 4 per cent.....	5,000 00	
5 Illinois Central R. R. coupon bonds, 3½ per ct.	5,000 00	
7 City of Portsmouth coupon bonds, 4 per cent .	7,000 00	
10 City of Augusta coupon bonds, 4 per cent.	10,000 00	
3 N. Y., N. H. & H. R. R. coupon bonds, 4 per cent.....	3,000 00	
2 City of Lowell coupon bonds, 4 per cent.....	2,000 00	
2 C. B. & Q. R. R. coupon bonds, 4 per cent....	2,000 00	
10 Fitchburg R. R. coupon bonds, 4 per cent.....	10,000 00	
10 Boston & Maine R. R. coupon bonds, 4 per cent.	10,000 00	
4 City of Melrose coupon bonds, 4 per cent.....	4,000 00	
1 City of Providence reg. bond, 4 per cent.....	11,000 00	
10 Delaware & Hudson R. R. coupon bonds, 4 per cent.....	10,000 00	
1 City of Boston reg. bond, 3½ per cent.....	5,000 00	
1 City of Lowell serial note, 4¼ per cent.....	1,800 00	
1 Chicago & No. West. R. R. reg. bond, 4 per cent.....	10,000 00	
8 American Tel. & Tel. coupon bonds, 4 per cent.	8,000 00	
5 Worcester Consolidated Street R. R. coupon bonds, 5 per cent.....	5,000 00	
10 Kansas City coupon bonds, 4½ per cent.....	10,000 00	
2 City of Newton coupon bonds, 4 per cent.....	2,000 00	
	<hr/>	251,300 00
Cash on deposit in Appleton National Bank.....		822 50
		<hr/>
		252,122 50
		<hr/>

NEW SCHOOL HOUSES SINKING FUND

	Securities	Cash	Total
On hand Jan. 1, 1910.....	62,000 00	196 56	62,196 56
Received during 1910 :			
Cash-Annual Appropriation		4,000 00	
Income on Investments.....		2,520 00	
Income on Bank Deposits.....		35 39	
		<hr/>	
		6,751 95	
Securities bought in 1910.....	6,000 00		
Paid for securities in 1910..		6,024 67	
	<hr/>	<hr/>	<hr/>
On hand Jan 1, 1911.....	68,000 00	727 28	68,727 28
Increase during 1910			<hr/>
			6,530 72

Securities belonging to this fund :

8 City of Indianapolis coupon bonds, 4 per cent..	8,000 00	
3 C. B. & Q. R. R. coupon bonds, 4 per cent....	3,000 00	
5 Illinois Central R. R. coupon bonds, 4 per cent.	5,000 00	
2 Winona & St. Peter R. R. coupon bonds, 7 per cent	2,000 00	
1 N. Y., Lack. & West R. R. coupon bonds, 6 per cent	1,000 00	
4 Boston & Maine R. R. coupon bonds, 4 per ct.	4,000 00	
5 N. Y., N. H. & H. R. R. coupon bonds, 4 per cent.....	5,000 00	
1 City of Minneapolis reg. bond, 3½ per cent ..	10,000 00	
1 City of Lowell coupon bond, 4 per cent... ..	1,000 00	
4 C. B. & Q. R. R. coupon bonds, 4 per cent....	4,000 00	
1 N. Y., N. H. & H. R. R. coupon note, 5 per ct.	1,000 00	
5 Town of Melrose coupon bonds, 4 per cent....	5,000 00	
5 City of Milwaukee coupon bonds, 4 per cent...	5,000 00	
1 Chicago & No. Western R. R. reg. bond, 4 per cent	5,000 00	
3 American Tel & Tel Co. coupon bonds, 4 per cent.....	3,000 00	
6 Town of Watertown coupon bonds, 4 per cent.	6,000 00	
	<hr/>	68,000 00
Cash on deposit in Appleton National Bank. ..		727 28
		<hr/>
		68,727 28

LOWELL HIGH SCHOOL SINKING FUND

	Securities	Cash	Total
On hand Jan. 1, 1910.....	77,000 00	808 26	77,808 26
Received during 1910 :			
Cash-Annual Appropriation.....		3,000 00	
Income on Investments.....		3,130 00	
Income on Bank Deposits.....		41 42	
Securities bought in 1910.....	6,000 00		
Securities matured in 1910.....		500 00	
		7,479 68	
Paid for securities in 1910.....		6,012 55	
On hand Jan. 1, 1911.....	82,500 00	1,467 13	83,967 13
Increase during 1910.....			6,158 87

Securities belonging to this fund :

7 City of Portsmouth coupon bonds, 4 per cent .	7,000 00
5 City of Indianapolis coupon bonds, 4 per cent..	5,000 00
4 Fitchburg R. R. coupon bonds, 4 per cent.	4,000 00
5 C. B. & Q. R. R. coupon bonds, 4 per cent	5,000 00
7 Illinois Central R. R. coupon bonds, 4 per cent.	7,000 00
2 City of Saginaw coupon bonds, 4 per cent. ...	2,000 00
1 Boston & Maine R. R. coupon bond, 4 per cent.....	1,000 00
10 N. Y., N. H. & H. R. R. coupon bonds, 4 per cent.....	10,000 00
1 N. Y., Lack. & West. R. R. coupon bond, 6 per cent.....	1,000 00
12 N. Y., N. H. & H. R. R. coupon bonds, 4 per cent ...	12,000 00
5 C. B. & Q. R. R. coupon bonds, 4 per cent....	5,000 00
1 N. Y., N. H. & H. R. R. coupon note, 5 per cent.....	1,000 00
1 City of Lowell serial note, 4½ per cent.....	1,050 00
1 City of Lowell serial note, 4½ per cent.....	2,450 00
5 City of Milwaukee coupon bonds, 4 per cent..	5,000 00
1 Chicago & No. West. R. R. reg. bond, 4 per cent	5,000 00
3 American Tel. & Tel. Co. coupon bonds, 4 per cent	3,000 00

	Cash	Total
2 Town of Winchester coupon bonds, 3½ per cent.....	2,000 00	
3 West End St. R. R. coupon bonds, 4½ per cent	3,000 00	
1 City of Lowell coupon bond, 4 per cent... ..	1,000 00	
	<hr/>	82,500 00
Cash on deposit in Appleton National Bank.....		1,467 13
		<hr/>
		83,967 13
		<hr/>

HAPGOOD WRIGHT CENTENNIAL TURST FUND

On hand Jan. 1, 1910	3,966 77	
Received during 1910 :		
Cash-Interest on Bank Deposits	160 22	4,126 99
	<hr/>	<hr/>
On hand Jan. 1, 1911		4,126 99
Increase during 1910		160 22
		<hr/>

Securities belonging to this fund :

Cash deposited in Lowell Inst. for Savings	828 58	
Cash deposited in City Inst. for Savings	3,298 41	
	<hr/>	4,126 99
		<hr/>

Respectfully submitted,

AUSTIN K. CHADWICK
FRED A. BUTTRICK
CHARLES L. KNAPP

Commissioners of Sinking Funds for the City of Lowell for the year 1910.

Schedule K

General Treasury Fund

Receipts and Payments by Departments

From January 1, 1910, to December 31, 1910

Balances from 1910

Appropriation from Revenue

Appropriation from Loans

Department Transfers

Receipts Cash

Total Appropriated

Total Expenditures

Return to G. T. F.

Balances to 1911

SCHEDULE K

GENERAL TREASURY FUND

Receipts and Payments by Departments

Table of Balances, Appropriations, Receipts and Expenditures

From January 1, 1910 to December 31, 1910

ACCOUNTS ARRANGED BY SCHEDULE

	Balances from 1910	Appropriation from Revenue	Appropriation from Loans	Department Transfers	Receipts Cash	Total Appropriated	Total Expenditures	Returned to G. T. F.	Balances to 1911
I—DEPARTMENTAL									
I—1	Incidentals	2300.00			10.35	2310.35	2072.31	238.04	
I—2	Mayor, S.	4200.00				4200.00	4200.00		
	Mayor, O. E.	150.29			1.75	152.04	152.04		
I—3	Auditor, S.	3890.00				3890.00	3890.00		
	Auditor, O. E.	1189.67		60.00		1249.67	1249.67		
I—4	Treasurer, S.	8582.00				8582.00	8582.00		
	Treasurer, O.E.	2902.18				2902.18	2902.18		
I—5	Assessors, S.	12238.81				12238.81	12238.81		
	Assessors, O. E.	999.88				999.88	999.88		
I—6	City Clerk, S.	5194.58			5.25	5199.83	5199.83		
	City Clerk, O. E.	1306.70			3.50	1310.20	1310.20		
I—7	Messenger, S.	10000.10				10000.10	10000.10		
	Messenger, O. E.	8000.00				8000.00	7999.56	.44	
I—8	Solicitor, S.	4828.00				4828.00	4825.94	2.06	
	Solicitor, O. E.	1150.00				1150.00	496.47	303.53	350.00
I—9	Elections	9002.92			27.00	9029.92	9029.92		

I-10	Registrars	4955.30		4955.30		
I-11	State Supervisors	300.00		300.00		60.00
I-12	Engineering	6300.00	9081.26	15381.26		312.60
I-13	Building Dept. Office	4150.00		4150.00		
I-14	Clerk of Council	300.00		300.00		
I-15	Clerk Committees, S.	1400.00		1400.00		
	Clerk Committees, O. E.	200.00		200.00		3.25
I-16	Supply, S.	5532.00		5532.00		
	Supply, O. E.	700.00		700.00		7.93
	Supply, Adv.	300.00		300.00		23.61
I-17	Janitors of Pub. Buildings	2091.75		2091.75		
I-18	Insurance	3500.00		3500.00		244.78
I-19	Municipal Registers	332.20		332.20		
I-20	Contingent Fund, Ht. Hall	267.65		267.65		267.65
		267.65	9141.26	116153.14	114339.25	1196.24
						617.65

2—PROTECTION LIFE AND PROPERTY

2-1	Police, Board, Com. Officers	24700.00	1199.94	25899.94	25439.62	460.32
	Police, W.	105000.00	918.50	105918.50	103409.62	2508.88
	Police, Stable, Pensions	17526.07		17526.07	17526.07	
	Police, Special Duties	1300.00		1300.00	972.07	327.93
	Police, O. E.	5470.08		5470.08	5470.08	
2-2	Fire, S. & W.	138617.04		138639.04	138639.04	
	Fire, O. E.	27822.34		28077.59	28077.59	
2-3	New Apparatus, Furnishings		250.00	28077.59		
				12264.34	12115.00	149.34

Accounts Arranged by Schedule—Continued

	Balances from 1910	Appropriation from Revenue	Appropriation from Loans	Department Transfers	Cash Receipts	Total Appropriated	Total Expenditures	Returned to G. T. F.	Balances to 1911
2-4 New Fire House	191.62					191.62	184.00	7.62	
2-5 Fire, Underground Wires			3000.00			3000.00			3000.00
2-6 Rifle Range, W.		626.00				626.00	626.00		
		302.95				302.95	302.95		
2-7 Building Dept., W.		6432.26		451.86		6884.12	6884.12		
		8942.14		586.57		9528.71	9528.71		
2-8 Wire Inspector, W.		2226.00				2226.00	2226.00		
		338.38			.90	339.28	339.28		
2-9 Wire, Inspector, O. E.		1772.00				1772.00	1770.00	2.00	
		525.91				525.91	525.91		
2-10 Sealer, O. E.		9000.00				9000.00	9000.00		
2-11 Moth & Beetle, Ex.		800.00				800.00	800.00		
2-12 Care of Trees		40.00				40.00	40.00		
2-13 Fish Warden		5.00				5.00	5.00		
2-14 Pound Keeper									
2-15 Building Fund	48708.00					48708.00			49708.00
2-16 Fire Signal System		1000.00				1000.00	999.98	.02	
2-17 Fire House Repairs			3700.00			3700.00	3699.82	.18	
2-18 Police Underground Wires			4000.00			4000.00			4000.00
8-18 New Auto Patrol			5600.00			5600.00	5600.00		
2-19 New Fire Boxes		500.00				500.00	492.76	7.24	
2-20 Central Fire Sta. Boiler		900.00				900.00	890.00	10.00	
2-21 Smoke Inspector		100.00				100.00	99.89	.11	
	62163.96	353946.17	16300.00	3406.87	28.15	435845.15	375663.51	3473.64	56708.00

3—HEALTH AND SANITATION

3-1	Health Office	10167.59				10167.59	
	Health, O. E.	7089.01				7092.17	
3-2	Health Yard, W.	35083.18			3.16	35083.18	
	Health Yard, O. E.	10033.61				10555.74	
3-3	Milk Inspection, W.	2204.25				2204.25	
	Milk Inspection, O. E.	379.38				379.38	
3-4	Insp. of Animals, W.	500.00				500.00	
	Insp. of Animals, O. E.	20.25				20.25	
3-5	Sewer Maintenance, W.	13737.71			8.24	15601.83	
	Sewer Maintenance, O. E.	3000.00				4268.35	2703.89
3-6	Sewer Construction		50000.00		39.16	49820.82	218.34
3-7	Wigginville Sewer	833.04				823.04	773.02
3-8	School Inspection					600.00	50.02
3-9	Contagious Hospital					1000.00	171.00
							1000.00
		823.04	83814.98	50000.00	6347.50	141038.83	136895.58
					53.31		3143.25
							1000.00

4—HIGHWAYS AND BRIDGES

4-1	Street Dept., S.	4000.19				4000.19	
	Street Dept., W.	118650.40			161.14	119569.16	
	Street Dept., O. E.	40440.00			12.19	67987.66	130.25
4-2	New Sidewalks	5544.13				5544.13	
4-3	Street Watering, W.	5000.00				4967.66	319.34
	Street Watering, O. E.	15441.63				15872.13	
4-4	Street Lighting	98992.84				98992.84	

Accounts Arranged by Schedule—Continued

	Balances from 1910	Appropriation from Revenue	Appropriation from Loans	Department Transfers	Receipts Cash	Total Appropriated	Total Expenditures	Returned to G. T. F.	Balances to 1911
4-5 Pav. Merrimack, Bridge Streets, etc.	2649.63					2649.63	1253.60	1396.03	
4-6 State Highway Tax		115.00				115.00	115.00		
4-7 Pav. Merrimack, Prescott Streets, etc.			68000.00		1.00	68001.00	62746.40	5254.60	
4-8 Macadamizing Streets		25600.00				25600.00	24510.93	1089.07	
4-9 Congress and Billerica St. Bridge			10000.00		1.75	10001.75	2757.53		7244.22
4-10 Lawrence St. Meadow Brook			20400.00		6.75	20406.75	8502.95		11903.80
4-11 Shaw St. Extension		989.84				989.84			989.84
4-12 Church St. Storm Guards..		800.00				800.00	192.97	607.03	
	2649.63	315574.03	98400.00	29140.84	182.83	445947.33	417013.15	8796.32	20137.86
5—CHARITIES									
5-1 Charity Dept., O. D. R.		28997.29		190.90	32.83	29221.02	29221.02		
5-2 Charity Dept., Hospital		52886.26		526.22		53412.48	53412.48		
5-3 Hospital Repairs			3000.00			3000.00	2999.97	.03	
		81883.55	3000.00	717.12	32.83	85633.50	85633.47	.03	
6—SOLDIERS BENEFITS									
6-1 Office, W. & O. E.		2218.14			4.12	2222.26	2222.26		
6-2 State Aid		17722.00			55.00	17777.00	17777.00		

6-3	Military Aid	3000.00		3000.00	2946.00	54.00
6-4	Soldiers Relief	17970.22	34.00	17970.22	17970.22	
		<u>40876.36</u>	93.12	40969.48	40915.48	<u>54.00</u>

7—SCHOOLS

7-2	School Houses, W.	10000.00		380721.08	380721.08	
	School Houses, O. E.	10781.60		10903.53	10851.58	51.95
7-3	Plastering & Lathing	300.00		11234.75	11234.75	
7-4	Kalsomining	2000.00		300.00	299.74	.26
7-5	Greenhalge School		103.53	2000.00	1998.24	1.76
7-6	New Highland School		2178.87	103.53	102.16	1.37
7-7	Repairing School Grounds	500.00		2178.87	2152.46	26.41
7-8	Lowell Textile School	8000.00		500.00	500.00	
7-9	School House Repairs	1000.00	3300.00	8000.00	8000.00	
7-10	School Desk Repairs	1500.00		3300.00	3300.00	
7-11	Work on Boilers			1000.00	968.75	31.25
				1500.00	1497.13	2.90
		<u>2282.40</u>		<u>1356.68</u>	<u>421741.76</u>	<u>115.90</u>

8—LIBRARIES

8-1	Library and Reading Room	15000.00		15000.00	15000.00	
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9—RECREATION

9-1	Parks, S. & W.	10000.00		10037.65	10037.65	
	Park, O. E.	4000.00		4141.00	4141.00	
			37.65			

Accounts Arranged by Schedule—Continued

	Balances from 1910	Appropriation from Revenue	Appropriation from Loans	Department Transfers	Receipts Cash	Total Appropriated	Total Expenditures	Returned to G. T. F.	Balances to 1911
9-2 No. Common Walks		1000.00				1000.00	1000.00		
9-3 Fort Hill Ball Grounds		1000.00				1000.00	1000.00		
9-4 Playgrounds		1500.00				1500.00	1500.00		
9-5 Anne Street Grounds		1200.00				1200.00	1200.00		
9-6 Little Canada Park	500.00	3000.00				3500.00	140.96	3359.04	
9-7 Memorial Day, G. A. R.		1000.00				1000.00	1000.00		
9-8 Memorial Day, S. W. V. ...		350.00				350.00	349.48	.52	
9-9 Band Concerts		675.00				675.00	665.52	9.48	
9-10 July Fourth		1500.00				1500.00	1497.97	2.03	
9-11 No. Common Fountain		300.00				300.00	300.00		
9-12 Playground Fountain		100.00				100.00	100.00		
9-13 No. Common Drainage		2050.00				2050.00	2050.00		
0-14 A. O. H. Reviewing Stand		300.00				300.00	300.00		6239.66
9-15 Shedd Playground			10000.00			10000.00	3760.34		
	500.00	27975.00	10000.00	141.00	37.65	38653.65	29042.92	3371.07	6239.66

10—UNCLASSIFIED

10-1 Carney Medal Fund	200.00					200.00			200.00
10-2 Claims & Executions Court		5858.71				5858.71	5858.71		
10-3 Portrait, Chas. D. Palmer		200.00				200.00	200.00		
	200.00	6058.71				6258.71	6058.71		200.00

11—PUBLIC SERVICE ENTERPRISES

11-1	Water Works	1006.64		223745.44	224752.08	220204.83	1029.62	3517.63
11-2	Water Works, New Pump		60000.00		60000.00	485.13		59514.87
11-3	Weigher, S.	810.00			800.00	800.00		
					10.00	7.20	2.80	
		1006.64	810.00	223745.44	285562.08	221497.16	1032.42	63032.50

12—CEMETERIES

12—1	Edson & Others	7641.74			7641.74			
12—2	New Gate	2500.00			2500.00			2500.00
		10141.74			10141.74	7641.74		2500.00

13—INTEREST

13—1	Notes & Bonds	145000.00			145000.00	137758.78	7241.22	
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14—MUNICIPAL INDEBTEDNESS

14—1	Temporary Loans	700000.00	1300000.00		2000000.00	1300000.00		700000.00
14—2	City Debt		273914.20	15200.00	289114.20	289114.20		
		700000.00	273914.20	1300000.00	15200.00	2289114.20	1589114.20	700000.00

15—SINKING FUNDS

15—1	City Debt	14500.00			14500.00	14500.00		
15—2	Water Works	16000.00			16000.00	16000.00		
		30500.00			30500.00	30500.00		

Accounts Arranged by Schedule—Continued

	Balances from 1910	Appropriation from Revenue	Appropriation from Loans	Department Transfers	Receipts Cash	Total Appropriated	Total Expenditures	Returned to G. T. F.	Balances to 1911
16—AGENCY, TRUST, INVESTMENTS									
16—1 State Tax		120725.00				120725.00	120725.00		
16—2 Non-Resident Bank Tax ..		10749.45				10749.45	10721.80	27.65	
16—3 County Tax		83726.66				83726.66	83726.66		
16—4 Liquor Licenses		43138.00				43138.20	42762.75	375.25	
16—5 Grade Crossings		1.23			162.67	163.90	163.90		
		258340.34			162.67	258503.01	258100.11	402.90	

17—REFUNDS

17—1 Abatement Taxes, (After Payment)	546.16					546.16	546.16		
17—2 Moth & Beetle	4.10					4.10	4.10		
17—3 Release of Tax Titles	49.06					49.06	49.06		
	599.32					599.32	599.32		

RECAPITULATION OF SCHEDULES

	Balances from 1910	Appropriation from Revenue	Appropriation from Loans	Department Transfers	Receipts Cash	Total Appropriated	Total Expenditures	Returned to G.T.F.	Balances to 1911
1 Departmental	267.65	106696.38		9141.26	47.85	116153.14	114339.25	1196.24	617.65
2 Protection Life & Property	62163.96	353946.17	16300.00	3406.87	28.15	435845.15	375663.51	3473.64	56708.00
3 Health & Sanitation	823.04	83814.98	50000.00	6347.50	53.31	141038.83	136895.58	3143.25	1000.00
4 Highways & Bridges	2649.63	315574.03	98400.00	29140.84	182.83	445947.33	417013.15	8796.32	20137.86
5 Charities		81883.55	3000.00	717.12	32.83	85633.50	85633.47	.03	
6 Soldiers Benefits		40876.36			93.12	40969.48	40915.48	54.00	
7 Schools	2282.40	414743.58	3300.00	1356.68	59.10	421741.76	421625.86	115.90	
8 Libraries		15000.00				15000.00	15000.00		
9 Recreation	500.00	27975.00	10000.00	141.00	37.65	38653.65	29042.92	3371.07	6239.66
10 Unclassified	200.00	6058.71				6258.71	6058.71		200.00
11 Public Service Enterprises	1006.64	810.00	60000.00		223745.44	285562.28	221497.16	1032.42	63032.50
12 Cemeteries		10141.74				10141.74	7641.74		2500.00
13 Interest		145000.00				145000.00	137758.78	7241.22	
14 Municipal Indebtedness	700000.00	273914.20	1300000.00	15200.00		2289114.20	1589114.20		700000.00
15 Sinking Funds		30500.00				30500.00	30500.00		
16 Agency, Trust, Investments		258340.34			162.67	258503.01	258100.11	402.90	
17 Refunds		599.32				599.32	599.32		
	760893.32	2165874.36	1541000.00	65451.27	224442.95	4766661.90	3887399.24	28826.99	850435.67

Schedule L

APPROPRIATIONS AND EXPENDITURES FROM THE GENERAL TREASURY FUND BY DEPARTMENTS

Classified and Arranged According to Schedule F

1—DEPARTMENTAL

Incidentals; Mayor, S.; Mayor, O. E.; Auditor, S.; Auditor, O. E.; Treasurer, S.; Treasurer, O. E.; Assessors, S.; Assessors, O. E.; City Clerk, S.; City Clerk, O. E.; Messenger, S.; Messenger, O. E.; Solicitor, S.; Solicitor, O. E.; Elections; Registrars; State Supervisors; Engineering; Building Dept. Office; Clerk of Council; Clerk Committees, S.; Clerk Committees, O. E.; Supply, S.; Supply, O. E.; Supply, Adv.; Janitors of Public Buildings; Insurance; Municipal Registers; Contingent Fund, Ht. Hall

INCIDENTALS

Appropriation	2,310 35
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2,310 35

Expended

For Stationery, Printing, etc.:

Butterfield Printing Co.....	19 25
Courier-Citizen Co.....	63 40
Dumas & Co.....	249 40
Lambert Printing Co.....	119 25
Lawler Printing Co.....	40 00
L'Etoile	2 10
Lowell Sun.....	5 70
Lowell Telegram.....	3 60
T. F. McCarthy	12 75
R. C. Paradis.....	2 75
G. C. Prince & Son	50
C. S. Proctor	253 42
Tobin's Printery.....	150 00

922 12

Incidentals—Continued

For Entertainment, etc.:

John F. Meehan	7 75
D. L. Page Co.	21 00
F. E. Putnam.....	18 20
Richardson Hotel.....	8 00

54 95.

For Transportation, etc.:

Adams Express Co	1 75
American Express Co.....	8 30
F. N. Burnham	2 00
W. P. Feindel.....	37 50
Charles A. Horan.....	3 00
Lowell Coach Co.	22 00
J. H. Sparks	152 20

226 75.

For Sundries:

Co. C. 6th Reg't.....	125 00
F. M. Dowling	19 00
Abbot Lawrence.....	25 00
J. J. McManmon.....	25 00
John F. Meehan	12 60
Middlesex Trust Co.....	90 00
E. S. Morse & Co	400 00
N. E. T. & T. Co.....	1 89
B. J. Tracey.....	20 00
Charles Young.....	150 00

868 49.

Total Expenditures.....

Returned to General Treasury Fund.....

2,072 31

238 04

2,310 35.

MAYOR'S DEPARTMENT

Salaries

Appropriation	4,200 00	
		<u>4,200 00</u>

Expended

John F. Meehan, Mayor.....	2,983 56	
Warren P. Riordan, Secretary.....	1,193 43	
George H. Brown, Mayor	16 44	
E. V. Brown, Secretary	6 57	
		<u>4,200 00</u>

Other Expenses

Appropriation	152 04	
		<u>152 04</u>

Expended

For Stationery, Printing, etc.:

Charles E. Gallay	1 60	
H. C. Kittredge	3 60	
T. F. McCarthy	7 50	
G. C. Prince & Son	10 05	
Sampson & Murdock Co	3 00	
		<u>25 75</u>

For Telephone and Transportation:

Boston & Maine R. R.....	20 25	
C. K. Miller	92 14	
N. E. Tel. & Tel. Co.....	13 90	
		<u>126 29</u>
		<u>152 04</u>

AUDITOR'S DEPARTMENT

Salaries

Appropriation	3,890 00	
		<u>3,890 00</u>

Expended

Charles D. Paige, Auditor	1,800 00	
James T. Dunfey, Clerk	1,095 50	
Clinton P. Tuttle, Clerk	994 50	
		<u>3,890 00</u>

Other Expenses

Appropriation	1,249 67	
		<u>1,249 67</u>

Expended

Books, Stationery, etc.:		
G. C. Prince & Son	89 54	
C. S. Proctor Co	19 95	
Osmond Long	159 00	
G. M. Rex	20 00	
Buckland Printing Co	191 25	
Butterfield Printing Co	122 20	
Sampson & Murdock Co	3 00	
H. O'Brien Co	79 20	
A. M. Wood	5 00	
American City Co	4 00	
		<u>693 74</u>

Office Supplies, Stamps, Typewriter and Repairs:

C. E. Galley	35 79
Lull & Hartford	26 24
T. J. Bromilow	20 00
M. McGrath	3 00
Donovan & Co	1 00
J. F. Kely	6 70
C. D. Paige	66 42
Fox Typewriter Co	130 50

Auditor's Department—Continued

H. C. Derby.....	65 15
C. P. Tuttle	39 96
Thompson Hardware Co	5 55
	<hr/>
	398 42

Printing Reports, Binding, Other Expenses:

N. E. Tel. & Tel. Co.....	6 77
Courier Citizen Co.....	3 00
Lowell Sun	3 00
Dumas & Co.....	126 15
J. H. Sparks	28 00
Lowell Magazine.....	1 00
Butterfield Printing Co.....	566 34
Buckland Printing Co.....	123 25
	<hr/>
	857 51
	<hr/>
	1,949 67
	<hr/>

TREASURER'S DEPARTMENT**Salaries**

Appropriation	8,582 00
	<hr/>
	8,582 00
	<hr/>

Expended

Andrew G. Stiles	2,700 00
Joseph Farrell.....	1,500 00
Charles O. Wilson.....	1,095 50
J. H. Lavalley	782 50
Minnie Freeman.....	626 00
Kittie Miskella	626 00
Maud Macpherson.....	626 00
Jean McIntyre.....	626 00
	<hr/>
	8,582 00
	<hr/>

Treasurer's Department—Continued**Other Expenses**

Appropriation	2,902 18	
		<u>2,902 18</u>

Expended

For Stationery, Printing, etc.:		
Bankers & Tradesman	5 00	
Boston News Bureau	12 00	
Buckland Printing Co.	249 00	
Butterfield Printing Co.	82 50	
Courier-Citizen Co.	322 00	
Dumas & Co	168 45	
C. E. Galdey	10 10	
Lowell Sun	330 00	
R. C. Paradis	7 20	
G. C. Prince & Son	109 48	
Sampson & Murdock Co.	6 00	
A. G. Thompson	424 80	
		<u>1,726 53</u>

For Sundries:		
Middlesex Registry of Deeds	54 55	
N. E. Tel. & Tel. Co	20 50	
R. G. Norcross	300 00	
A. G. Stiles	106 85	
E. M. Tucke	120 00	
		<u>601 90</u>

For Writing and Distributing Tax Bills:		
To Sundry Persons	573 75	
		<u>573 75</u>
		<u>2,902 18</u>

ASSESSOR'S DEPARTMENT**Salaries**

Appropriation	12,238 81	
		<u>12,238 81</u>

Expended

For Principal Assessors :

Abel Wheeler	799 28	
C. Arthur Abbott	2,250 00	
A. J. Blazon	2,250 00	
S. S. Mayberry	1,266 68	
		<u>6,565 96</u>

For Assistant Assessors :

To Sundry Persons	909 00	
		<u>909 00</u>

For Permanent Clerks :

William Reardon	1,626 30	
Marietta L. McGrath	812 05	
		<u>2,438 35</u>

For Temporary Clerks :

To Sundry Persons	2,325 50	
		<u>2,325 50</u>
		<u>12,238 81</u>

Other Expenses

Appropriation	999 88	
		<u>999 88</u>

Assessor's Department—Continued**Expended****To Stationery, Printing, etc.:**

Auto List Publishing Co.....	2 00
Baker Printing Co.....	60 45
Banker & Tradesman	5 00
T. J. Bromilow.....	7 50
Buckland Printing Co.....	5 00
Carter's Ink Co.....	1 50
Courier-Citizen Co.....	558 88
Dumas & Co.....	182 05
H. C. Kittredge	45
O. A. Libby	7 00
R. C. Paradis.....	2 40
G. C. Prince & Son	50 00
Sampson & Murdock Co.....	12 00
Union Printing Co.....	27 75
Wright & Potter Printing Co.....	10 50

 932 48
For Sundries:

American Express Co.....	35
Arthur Bartlett	9 60
Joseph Flynn	7 00
Lull & Hartford	1 00
Manchester & Concord Express Co	20
W. J. Reardon.....	8 25
J. H. Sparks.....	41 00

 67 40

 999 88

CITY CLERK'S DEPARTMENT**Salaries**

Appropriation	5,199 83
---------------------	----------

 5,199 83

City Clerk's Department—Continued**Expended****For City Clerk :**

Girard P. Dadman.....	1,800 00	
	<hr/>	1,800 00

For Assistant City Clerk :

William P. McCarthy	1,500 00	
	<hr/>	1,500 00

For Clerks :

Belle C. Hill.....	730 33	
Annie H. Bedlow	626 00	
Ethel H. Tilton.....	530 00	
G. B. McKidder	13 50	
	<hr/>	1,899 83
		<hr/>
		5,199 83
		<hr/>

Other Expenses

Appropriation	1,310 20	
	<hr/>	1,310 20
		<hr/>

Expended**For Reporting Births :**

To Physicians, Nurses, Enumerators	757 60	
	<hr/>	757 60

For Stationery, Printing, etc. :

Buckland Printing Co.	46 00
Butterfield Printing Co.....	15 00
Courier-Citizen Co.....	32 40
G. P. Dadman.....	44 86
Dumas & Co.....	98 50
Chas. E. Galley	11 85
H. C. Kittredge	2 35
L'Etoile.....	2 70

City Clerk's Department—Continued**For Stationery, Printing, etc., —Consinued**

Lowell Sun	5 40
H. M. Meek Publishing Co....	18 00
G. C. Prince & Son	14 65
Chas. E. Robinson.....	20 00
Sampson & Murdock Co....	6 00
Smith Premier Typewriter Co.....	123 75
Union Printing Co.....	84 50

 525 96
For Sundries :

American Express Co.....	3 46
F. N. Burnham	6 00
C. C. Hartwell	1 00
Lowell Coach Co ...	8 30
Manchester & Concord Express Co.....	25
N. E. Tel & Tel. Co.....	1 68
N. Y. & Boston Despatch Express Co.	25
J. H. Sparks	5 70

 26 64

 1,310 20
MESSENGER'S DEPARTMENT**Salaries**

Appropriation	10,000 10
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 10,000 10
Expended

Joseph E. Pattee, Messenger	1,200 00
Sundry Persons for Labor	8,800 10

 10,000 10

Messenger's Department—Continued**Other Expenses**

Appropriation	8,000 00	
		<u>8,000 00</u>

Expended**For Furniture, Fixtures and Repairs:**

Adams & Co.....	183 68	
H. R. Barker Mfg. Co.....	2 00	
Bon Marche....	2 20	
Boston Steam Specialty Co.....	27 10	
Cook, Taylor & Co.....	47 08	
L. A. Derby.....	72 95	
Gilbride Co.....	3 96	
N. E. Electric & Supply Corp.....	50 07	
Pneuvac Co.....	150 00	
A. G. Pollard Co.....	15 22	
Robertson Co.....	25 00	
Welch Bros.....	38 13	
		<u>617 39</u>

For Hardware, etc.:

F. G. Baldwin	2 50	
J. C. Bennett	22 00	
Cheney & Thomson Co.....	20 70	
C. B. Coburn Co.....	21 75	
H. C. Girard Co.....	10 86	
F. H. Howard D. D. Co.....	3 75	
W. A. Mack Co.....	3 50	
F. E. Nelson.....	3 60	
Somerville Brush Co.....	6 09	
Wm. Wrigley & Co.	5 28	
		<u>100 03</u>

Messenger's Department—Continued**For Express, Transportation, etc.:**

Adams Express Co.....	55
American Express Co.....	20
Boston & Maine R. R.....	20 00
Conway Transfer Co.....	50
Manchester & Concord Express Co.....	15
H. W. O'Brien.....	8 00
J. H. Sparks.....	37 00

66 40

For Entertainments and Decorations:

Morse & Beals.....	8 50
D. L. Page Co.....	32 15

40 65

For Stationery, Printing, etc.:

Butterfield Printing Co.....	7 85
Courier-Citizen Co.....	3 00
T. F. McCarthy.....	11 25
G. C. Prince & Son.....	180 32
Sampson & Murdock Co.....	18 00
Union Printing Co... ..	39 50

329 92

For Lighting City Hall:

Lowell Gas Light Co.....	271 31
Lowell Electric Light Corp	1,287 90

1,559 21

For Lighting Memorial Hall:

Lowell Gas Light Co.....	34 41
Lowell Electric Light Corp	105 19

139 60

For Fuel:

Edward Cawley	3,337 83
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3,337 83

Messenger Department—Continued

For Sundries:

App. Water Works	361 04
App. Police Wages	918 50
F. M. Bill & Co.	24 80
Cancos Mfg. Co.	24 75
C. B. Coburn Co	173 21
F. J. Flemings	8 00
W. H. Ford	2 50
Frye & Crawford	3 75
Daniel Dage	97 75
F. B. Hill & Co.	1 50
India Alkali Co.	24 89
Abbott Lawrence	50 00
James McKinley	6 00
N. E. Tel. & Tel. Co.	28 73
No-Dust Mfg. Co.	11 25
J. E. Pattee	2 00
D. Perreault	8 00
Chas. R. Preston ...	5 00
Simpson & Rowland	2 50
Smith Metal Polish Co.	5 00
Talbot Co.	2 86
Talbot Dyewood & Chemical Co	10 00
W. E. Westall	36 50

1,808 53

Total Expenditures..... 7,999 56

Returned to General Treasury Fund..... 44

8,000 00

LAW DEPARTMENT**Salaries**

Appropriation 4,828 00

4,828 00

Law Department—Continued**Expended**

William W. Duncan, City Solicitor	3,000 00	
M. E. McDonald, Claim Agent	1,199 94	
Frances E. Andrews, Clerk	626 00	
		<hr/>
		4,825 94
Returned to General Treasury Fund.....		2 06
		<hr/>
		4,828 00
		<hr/>

Other Expenses

Appropriation	1,150 00	
		<hr/>
		1,150 00
		<hr/>

Expended**For Stationery, Printing, etc.:**

Baker Printing Co.....	28 80	
Banker & Tradesman	5 00	
Carter's Ink Co.....	38	
Keefe, Davidson Co	10 00	
Lawyers Co-op. Publishing Co.	29 00	
Little, Brown & Co.	12 90	
G. C. Prince & Son.....	19 25	
Riley & Sanborn	3 00	
Sampson & Murdock Co.....	3 00	
Frank Shepard Co.....	3 00	
Smith Premier Typewriter Co.....	3 50	
West Publishing Co.....	69 00	
		<hr/>
		186 83

For Telephone, Express, etc.:

American Express Co.	35	
Manchester & Concord Express Co.....	60	
N. E. Tel & Tel. Co.....	9 84	
		<hr/>

Law Department—Continued**For Sundries:**

W. W. Duncan.....	160 90	
Frank J. Ladd.....	100 00	
Middlesex County.....	1 35	
Thomas B. Smith.....	30 00	
George F. Stiles.....	6 60	
		<hr/>
		298 85
		<hr/>
		496 47
Returned to General Treasury Fund.		303 53
Balance to 1911.....		350 00
		<hr/>
		1,150 00
		<hr/>

ELECTIONS

Appropriations	9,029 92	
	<hr/>	
		9,029 92
		<hr/>

Expended**For Election Officers:**

To Sundry Persons.....	4,320 00	
	<hr/>	
		4,320 00

For Wages:

To Sundry Persons.....	1,743 95	
	<hr/>	
		1,743 95

For Stationery, Printing, etc.:

Baker Printing Co	77 00
Buckland Printing Co.....	56 75
Butterfield Printing Co.....	613 00
Courier-Citizen Co	818 55
G. P. Dadman.....	25 00
Dumas & Co.....	14 50
Hill, Smith & Co.....	15 00
L'Etoile	13 80

Elections—Continued

For Stationery, Printing, etc.—Continued

Lowell Sun.....	59 10
Lowell Telegram.	33 30
T. F. McCarthy	3 00
Merr'k Valley Labor Journal	6 00
G. C. Prince & Son.....	70 20
Proctor Paper Co.....	138 84
Tobin's Printery.....	24 25
Union Printing Co.....	172 32
W. G. Wight & Co.....	14 75

 2,155 36

For Teaming :

Berard Transfer Co.....	20 00
T. Casey.....	12 00
City Transfer Co	12 00
Conway Transfer Co.....	50 00
C. H. Hanson Co.	81 50
T. G. Little :.....	52 50
J. H. McDonald	16 00
S. T. Moses.....	12 00
Joseph Murphy	20 00
S W. Parker	16 00
O. W. Peabody	5 00
W. T. Rafferty.....	1 00
W. Reynolds	20 00
J. H. Sparks.....	11 75
Stanley Transportation Co	52 50

 382 25

For Sundries :

American Express Co.	45
Boston & Lowell Express Co.....	40
Cheney & Thomson Co.	58 90
C. B. Coburn Co.....	63 11
Sarah W. Covell	10 00
W. H. Emmott.	20 00
A. T. French & Co.....	73 35
W. T. Griffin	42 00
Otto Hahn	32 00

Elections—Continued

For Sundries—Continued

C. F. Hatch Co.	27 65	
Chas. R. Preston.....	3 50	
Chas. A. Spencer.	2 00	
Heirs M. T. Stevens.....	10 00	
Taylor Roofing Co.....	35 00	
E. K. Tolman	50 00	
		<hr/>
		428 36
		<hr/>
		9,029 92
		<hr/>

REGISTRARS

Appropriation	4,955 30	
		<hr/>
		4,955 30
		<hr/>

Expended

Board of Registrars :

John P. Farley.....	800 00	
Gerard P. Dadman.....	750 00	
J. O. Allard.....	750 00	
H. C. McOsker	750 00	
		<hr/>
		3,050 00

For Clerks :

To Sundry Persons	613 75	
		<hr/>
		613 75

For Stationery, Printing, etc. :

Courier-Citizen Co.....	893 50	
Dumas & Co.....	143 20	
C. I. Hood Co.....	37 75	
H. C. Kittredge	1 00	
Osmond Long	42 75	
Lowell Sun.....	7 80	
Lowell Telegram.....	3 60	
Proctor Paper Co.....	71 58	
Sampson & Murdock Co.....	6 00	
Tobin's Printery.....	6 50	
Union Printing Co.....	6 00	
W. G. Wight Co.....	8 25	
		<hr/>
		1,227 93

Registrars—Continued

For Sundries:

Lowell Wall Paper Co	40 12	
J. H Sparks	23 50	
		<u>63 62</u>
		<u>4,955 30</u>

STATE SUPERVISORS

Appropriation	300 00	
		<u>300 00</u>

Expended

To Sundry Persons.....	240 00	
Returned to General Treasury Fund.....	60 00	
		<u>300 00</u>

ENGINEERING

Appropriation	15,381 26	
		<u>15,381 26</u>

Expended

For City Engineer:

To George Bowers.....	2,700 00	
		<u>2,700 00</u>

For Wages:

To Sundry Persons	11,808 13	
		<u>11,808 13</u>

Engineering—Continued

For Stationery, Printing, etc.:

Baker Printing Co.. .. .	1 75
Buckland Printing Co.	27 00
Carter's Ink Co.	38
Dumas & Co.	9 75
Engineering Record	3 00
Municipal Journal and Engineer	3 00
Municipal Engineering Co.	2 00
Pairpont Corp.	6 00
G. C. Prince & Son.	44 68
Sampson & Murdock Co.	13 20

110 76

For Express, Transportation, Telephone, etc.:

Adams Express Co	35
American Express Co.	35
Boston & Maine R. R.	20 25
A. B. Illsley.	1 75
Manchester & Concord Express Co	15
C. K. Miller.	20 25
N. E. Tel & Tel. Co.	34 80
New York, New Haven & Hartford R. R	85
J. H. Sparks.	14 50

93 25

For Sundries:

Arthur Bartlett	4 60
John C. Bennett.	1 05
C. L. Berger & Sons.	13 20
George Bowers.	22 08
Cheney & Thomson Co.	24 30
G. E. Hutchins.	1 75
Lull & Hartford.	5 00
B. L. Makepeace.	66 87
J. S. Mason & Co.	16 80
George A. Nelson.	8 50
N. E. Electric & Supply Co.	37
Ottawa Silica Co.	4 20
D. W. Parker.	4 80
Pawtucketville Cash Grocery	1 00
A. G. Pollard Co.	20
C. R. Preston.	9 50

Engineering—Continued**For Sundries—Continued**

Sawyer Carriage Co.....	154 80	—
J. H. Sparks.....	13 10	
W. E. Westall.....	4 40	
	<u> </u>	356 52
		<u>15,068 66</u>
Returned to General Treasury Fund.....		312 60
		<u>15,381 26</u>

BUILDING DEPARTMENT, OFFICE**Salaries**

Appropriation	4,150 00	
	<u> </u>	4,150 00

Expended

To James Dow, Inspector	1,800 00	
A. E. Burnham, Deputy Inspector	1,252 00	
Joseph F. Roarke, Clerk	1,098 00	
	<u> </u>	4,150 00

CLERK OF COMMON COUNCIL

Appropriation	300 00	
	<u> </u>	300 00

Expended

To Frank M. Dowling.....	300 00	
	<u> </u>	300 00

CLERK OF COMMITTEES

Salary

Appropriation	1,400 00	
		<u>1,400 00</u>

Expended

To Frank M. Dowling	1,400 00	
		<u>1,400 00</u>

Other Expenses

Appropriation	200 00	
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Expended

For Stationery, Printing, etc.:

Courier Citizen Co.....	32 00	
Dumas & Co.....	10 00	
C. E. Galley.....	8 50	
G. C. Prince & Son.....	13 75	
Union Printing Co.....	20 50	
		<u>84 75</u>

For Sundries:

Lowell Coach Co.	5 00	
H. L. P. Turcotte	10 00	
A. M. Wood.....	97 00	
		<u>112 00</u>

Returned to General Treasury Fund.

196 85
<u>3 25</u>
<u>200 00</u>

SUPPLY DEPARTMENT**Salaries**

Appropriation	5,532 00	
	<hr/>	5,532 00
		<hr/>

Expended

For Purchasing Agent :

Peter A. Mackenzie.....	2,400 00	
	<hr/>	2,400 00

For Clerks :

A. Fenton.....	782 50	
T. J. Murphy.....	782 50	
J. H. Murphy.....	322 50	
E. M. Churchill.....	824 50	
W. C. Bruce.....	420 00	
	<hr/>	3,132 00
		<hr/>
		5,532 00
		<hr/>

Other Expenses

Appropriation	700 00	
	<hr/>	700 00
		<hr/>

Expended

For Stationery, Printing, etc. :

Baker Printing Co.....	104 00
Buckland Printing Co.....	11 00
Carter's Ink Co.....	75
Courier-Citizen Co.....	2 75
H. C. Kittredge.....	25
G. C. Prince & Son.....	90 10
Sampson & Murdock Co.....	3 00
	<hr/>

211 85

Supply Department—Continued

For Telephone, Transportation, etc.:

American Express Co.....	55	
Boston & Maine R. R.....	20 25	
C. K. Miller	60 50	
N. E. Tel. & Tel. Co.....	17 57	
		<hr/>
		98 87

For Carriages, Harnesses and Repairs:

Chas. Crevier.....	36 15	
Donovan Harness Co.	3 15	
G. H. Taylor	3 15	
		<hr/>
		42 45

For Shoeing and Board of Horses:

James Blakeley.....	1 75	
A. D. Mitten	31 65	
G. H. Taylor	274 80	
		<hr/>
		308 20

For Sundries:

Joseph Dextra.....	20	
Lowell Electrotpe Foundry	2 00	
Lowell Electric Light Corp.....	8 50	
J. E. Leyle.	3 00	
G. E. Maker.....	1 75	
A. G. Pollard Co.....	25	
H. A. Racicot	15 00	
		<hr/>
		30 70

Returned to General Treasury Fund

692 07
7 93

700 00

Advertising

Appropriation..... 300 00

300 00

Supply Department—Continued

Advertising:—Continued

Expended

Courier-Citizen Co.	88 01	
L'Etoile.....	73 40	
Lowell Sun	92 57	
Lowell Telegram	11 56	
La Vérité	10 85	
		276 39
Returned to General Treasury Fund		23 61
		<u>300 00</u>

JANITORS OF PUBLIC BUILDINGS

Appropriation.....	2,091 75	
		<u>2,091 75</u>

Expended

For Labor:

To Sundry Persons.....	2,091 75	
		<u>2,091 75</u>

INSURANCE

Appropriation	3,500 00	
		<u>3,500 00</u>

Expended

F. M. Brogan.....	60 00	
W. D. Brown.....	133 28	
F. C. Church & Co.....	389 78	
G. B. Coburn.....	73 78	
Collins & Hogan.....	23 50	
Thomas L. Dickey.....	87 75	
J. F. Donohue.....	129 78	

Insurance—Continued

Russell Fox.....	59 50	
G. D. Kimball.....	137 67	
T. C. Lee & Co.....	268 72	
Ezra Mansur.	73 78	
Maryland Casualty Co	775 00	
Henry Miller & Son	73 78	
F. B. Murphy	107 56	
N. G. Norcross.....	252 28	
Jos. Peabody	333 78	
E. M. Tucke	201 50	
G. R. Whidden.	73 78	
		3,255 22
Returned to General Treasury Fund.		244 78
		<u>3,500 00</u>

MUNICIPAL REGISTERS

Appropriation	332 20	
		332 20

Expended

C. F. Hatch Co.....	10 50	
Lawler Printing Co... ..	121 70	
Union Printing Co.....	200 00	
		332 20

HUNTINGTON HALL CONTINGENT FUND

Balance Jan. 1, 1910.....	267 65	
		267 65
Balance to 1911.....	267 65	
		<u>267 65</u>

2—PROTECTION LIFE AND PROPERTY

Police, Board, Commissioned Officers; Police, W.; Police, Stable, Pensions; Police, Special Duties; Police, O. E.; Fire, S. and W.; Fire, O. E.; New Apparatus, Furnishings; New Fire House; Fire, Underground Wires; Rifle Range, W; Rifle Range, O. E.; Building Dept., W.; Building Dept., O. E.; Wire Inspector, W.; Wire Inspector, O. E.; Sealer, W.; Sealer, O. E.; Moth and Beetle, Extermination; Care of Trees; Fish Warden; Pound Keeper; Building Fund; Fire Signal System; Fire House Repairs; Police Underground Wires; New Auto Patrol; New Fire Boxes; Central Fire Station, Boiler; Smoke Inspector.

POLICE DEPARTMENT

Police Board and Commissioned Officers

Salaries

Appropriations	25,899 94	
		25,899 94

Expended

Board of Police :

Frank K. Stearns	516 45	
Charles H. Hanson	1,000 00	
Thomas P. Boulger	1,000 00	
John J. Mullaney	682 25	
		3,198 70

Secretary :

John J. Flaherty, Jr.	1,500 00	
		1,500 00

Police Department—Continued

For Commissioned Officers :

Redmond Welch, Superintendent	2,000 00
Hugh Downey, Deputy Superintendent	1,500 00
For Officers	17,240 92

20 740 92

25,439 62

Return to General Treasurer Fund

460 32

25,899 94

Patrolmen, Wages

Appropriation	105,918 50
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105,918 50

Expended

For Patrolmen :

To Sundry Persons	103,409 62
Return to General Treasury Fund	2,508 88

105,918 50

Police Telegraph and Stable Wages, Pensions

Appropriation	17,526 07
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17,526 07

Expended

For Telegraph and Stable Wages :

To Sundry Persons	9,671 75
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9,671 75

For Pensions :

To Sundry Persons	7,854 32
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7,854 32

17,526 07

Special Duties

Appropriation	1,300 00	
		<u>1,300 00</u>

Expended

To Sundry Persons.....	972 07	
Returned to General Treasury Fund	327 93	
		<u>1,300 00</u>

Other Expenses

Appropriation	5,470 08	
		<u>5,470 08</u>

Expended**For Stationery, Printing, etc.:**

Auto List Publishing Co	10 00
Baker Printing Co	70 75
Buckland Printing Co.	18 50
Butterfield Printing Co.....	53 00
Carter's Ink Co.....	4 40
Courier-Citizen Co.....	131 85
Dumas & Co.....	40 25
H C. Kittredge	8 85
Lawler Printing Co.....	17 25
L'Etoile	7 50
Lowell Sun.....	14 55
G. C. Prince & Son.....	272 36
Sampson & Murdock Co.....	12 00
Smith Typewriter Inspection Co.	14 50
Union Printing Co.....	14 25

690 01**For Hardware, etc.:**

Bartlett & Dow	23 64
Carroll Bros	2 00
C. B. Coburn Co	6 44
L. A. Derby & Co.....	82

Police Department—Continued

For Hardware, etc.—Continued

N. D. Lafleur.....	65	
Lees Int. Gas Governor Co.....	40 00	
W. A. Mack Co.....	60	
Rice & Co.....	3 00	
		77 15

For Shoeing Horses:

M. J. Cahill	37 00	
C. Desmond.....	20 75	
J. J. Donnelly	95 45	
J. J. Moriarty	24 50	
Salois & Leith.....	11 55	
		189 25

For Cloth, Insignia, etc:

A. G. Pollard Co.....	31 64	
Raphael Massteangialo.....	41 55	
S. Slater & Sons.....	194 25	
Waterbury Button Co....	82 50	
		349 94

For Carriages, Harnesses and Repairs:

Donovan Harness Co.....	91 75	
C. H. Hanson Co.....	363 00	
J. E. Leith.....	14 50	
Salois & Leith.....	32 03	
Sawyer Carriage Co.....	3 15	
		504 43

For Transportation, Carriage hire, etc.:

Adams Express Co	90	
American Express Co.....	2 65	
Boston & Maine R. R.....	40 85	
Lowell Coach Co.....	41 00	
Manchester & Concord Express Co.....	60	
New York, New Haven & Hartford R. R	50	
		86 50

Police Department—Continued

For Hay, Grain, etc :

J. A. Boucher	9 75
J. B. Cover & Co.	2 95
G. M. Foster	10 55
Fred A. Fox, Est	141 57
Joseph Mullen	114 55
E. E. McCauslin	51 33
H. E. Noyes & Son	59 85
Edward W. Frull	314 02
Wilder & Wotton	95 25

799 82

For Water, Lighting and Telephone :

App. Water Works	134 81
Lowell Gas Light Co.	210 87
Lowell Electric Light Corp	340 70
N. E. Tel. & Tel. Co.	90 00
Western Union Tel. Co.	90

777 28

For Fuel :

Edward Crawley	715 67
George Lynch	1 37

717 04

For Sundries:

App. Engineering	8 34
G. H. Bachelder	10 60
F. & E. Bailey Co.	25
Baltimore Enamel & Novelty Co.	21 50
Achibles Baron	5 00
E. J. Bill	2 50
F. M. Bill & Co.	9 75
G. J. & D. Bradt	23 40
C. B. Coburn Co	26 06
L. A. Derby & Co.	8 64
The Edes Mfg. Co.	152 00
J. Albert Evans	2 00
Sergius Fegan	2 00

Police Department—Continued**Sundries—Continued**

Foote, Pearson & Co	14 85
Frye & Crawford Drug Co.....	35 13
Daniel Gage.....	54 75
Gamewell F. A. & Tel. Co.....	91 50
M. F. Gookin Co	43 25
Gookin Furniture Co.....	20 00
Grant Jewelry Co.....	15 00
W. E. Hatch	10 00
Sarah Ingham	46 04
J. E. Leith.....	6 00
Lowell Laundry	63 38
Meik Photo Engraving Co.....	2 00
Middlesex Leather Co	1 00
Miller & Co	12 00
Mitchell Wing & Co.....	8 00
National Dye House.....	1 50
Neostyle Co	35 00
F. E. Nelson	2 10
N. E. Electric & Supply Corp.....	8 00
Amasa Pratt Co.....	92 91
Pawtucketville Cash Grocery.....	1 00
Pitts Auto Supplies.....	15 00
T. H. Randall	10 00
Chas. D. Reese	12 50
Regan & Kerwin.....	5 40
John Regis	10 00
Richardson Hotel	5 70
Robertson Co.....	129 42
W. A. Sherman	1 50
F. H. Smith	4 00
Simpson & Rowland.....	3 90
Smith Typewriter Inspection Co.....	1 25
Talbot Dyewood & Chemical Co.....	143 64
Redmond Welch.....	80 90
W. E. Westall	7 75
G. H. Wood.....	8 90
Wm. Zimmer	3 35

1,278 66

5,470 08

FIRE DEPARTMENT**Salaries and Wages**

Appropriation	138,639 04	
	<u> </u>	138,639 04

Expended

For Chief Engineer:

Edward S. Hosmer	2,200 00	
	<u> </u>	2,200 00

For Assistant Chief Engineer:

James F. Norton.....	1,500 00	
	<u> </u>	1,500 00

For Board of Engineers:

Edward Meloy.....	400 00	
Charles Stackpole.....	400 00	
Charles E. Alway	400 00	
	<u> </u>	1,200 00

For Permanent Men	117,510 37	
For Call Men.....	13,350 01	
For Pensions.....	2,878 66	
	<u> </u>	133,839 04
		<u> </u>
		133,839 04

Other Expenses

Appropriation	28,077 59	
	<u> </u>	28,077 59

Fire Department—Continued**Expended****For Water, Lighting and Telephone :**

App. Water Works.....	491 71	
Lowell Gas Light Co.....	2,623 42	
Lowell Electric Light Corp	378 69	
N. E. Tel & Tel. Co.....	268 94	
		<hr/>
		3,762 76

For Veterinary Services ;

A. W. Baker.....	34 00	
C. A. Hamblett.....	1 50	
J. G. Lesure.....	31 50	
Chas. E. Munn	14 00	
W. A. Sherman.....	24 50	
J. H. Sparks.....	89 00	
		<hr/>
		194 50

For Horses and Use of Horses :

B. G. Brown.....	52 00	
C. H. Hanson Co....	2,795 65	
F. W. Jenness	128 00	
		<hr/>
		2,975 65

For Furniture, Bedding, etc. :

Adams & Co.....	6 55	
S. P. Bailey & Co.....	8 00	
Emery Cognac	11 50	
Cook, Taylor & Co.	63 00	
J. J. Doherty.....	28 65	
Economy Rug Co.....	22 90	
J. K. Foss.....	20 00	
Gilbride Co.....	170 18	
M. F. Gookin Co	9 00	
L. W. Hawkes & Co.....	3 25	
F. E. Nelson	22 80	
A. G. Pollard Co.....	63 00	
The Robertson Co.....	67 83	
W. E. Westall.....	23 25	
Workshop for the Blind	52 60	
		<hr/>

572 51

Fire Department—Continued**For Stable Supplies:**

F. M. Bill	164 65
Boston Engineer Supply Co....	193 50
Caucos Mfg Co.....	75 00
J. L. Chalifoux ...	18 00
Cheney & Thomson Co.....	1 56
C. B. Coburn Co.....	391 86
Walter Coburn Co.....	14 40
Columbia Refining Co.....	21 60
O. F. Kress & Son.....	8 50
Lowell Rendering Co	18 50
Lowell Waste Co.....	19 00
B. C. Page	4 50
Pawtucketville Cash Grocery.....	17 00
Simpson & Rowland.....	25 00
Somerville Brush Co.....	10 25
Talbot Dyewood & Chemical Co.....	55 05
W. E. Westall	139 35
Whitman & Pratt Rendering Co. ...	78 00
Worrell Mfg Co.....	48 00

 1,303 72
For Stationery, Printing, etc.:

Baker Printing Co.....	50 50
Buckland Printing Co.....	8 00
Lawler Printing Co	175 00
G. C. Prince & Son	7 80
Sampson & Murdock Co.....	3 00

 244 30
For Shoeing Horses:

R. R. Armitstead.....	84 54
R. Barris	12 90
J. Blakely	28 75
M. J. Cahill	304 91
J. Denes.....	9 50
E. Desmond.....	349 65
J. J. Donnelly.....	172 65
Gaurhier & Lemire.....	32 80
M. J. Haggerty.....	52 80
A. D. Mitten.....	144 00
J. J. Moriarty.....	116 25

Fire Department—Continued

For Shoeing Horses—Continued

Provencher & Lovering.....	114 75
Henry Reynolds.....	96 15
A. Roy.....	7 95
S. A. Shattuck.....	61 25
C. C. Thompson.....	93 95
H. Twomey.....	186 50
Willetts Bros.....	20 00
J. T. Williamson.....	215 15

2,100 45

For Hay, Grain, etc.:

Ame & Co.....	41 00
J. A. Boucher.....	165 30
J. B. Cover & Co.....	46 43
G. M. Foster.....	235 17
C. H. Hanson Co.....	174 19
Livingston Grain Co.....	43 84
E. E. McCauslin.....	289 58
T. J. McDonald.....	1,273 04
J. Mullin.....	1,791 49
H. E. Noyes & Son..	1,847 58
Paul Vigeant & Co.....	162 43
Wilder & Wotton.....	2,192 61

8,252 66

For Fuel:

John Brady.....	6 50
Edward Cawley.....	2,693 36
W. T. Griffin.....	7 25
George Lynch.....	12 00

2,719 01

For Express, Transportation, etc.:

Adams Express Co....	3 24
American Express Co.....	15 21
Boston & Lowell Express Co....	1 25
Boston & Maine R. R.....	2 30
E. H. Dealth.....	16 20
E. S. Hosmer.....	42 72

Fire Department—Continued**For Express, Transportation, etc.—Continued**

Lowell Coach Co	12 00
Manchester & Concord Express Co	2 10
C. K. Miller	20 25
New York & Boston Despatch Express Co..	7 79
New York, New Haven & Hartford R. R. . .	6 89
J. H. Sparks	18 00

147 95

For Hardware, Fittings, Hose and Repairs :

F. R. Almond Mfg Co	13 20
American La France Fire Engine Co	23 00
H. R. Barker Mfg Co	109 83
W. T. S. Bartlett	44 65
Bartlett & Dow	1 25
J. C. Bennett	23 25
Boston Engineers Supply Co	59 25
Boutwell Bros	22 16
C. Callahan Co	57 77
C. C. C. Fire Hose Co	1,468 16
Challenge Tube Cleaner Co	2 00
Cheney & Thomson Co	67 44
Coates Clipper Mfg Co	2 00
C. B. Coburn Co	5 48
Gauthier & Lemire	3 25
C. E. Guthrie	4 50
Mathias Klein & Sons	4 00
M. D. Lafleur	60
W. A. Mack Co	104 39
C. N. Perkins Co	33 75
Scovill Mfg Co	72 35
Scannell Boiler Works	1 55
E. E. Smith Co	31 30
Thompson Hardware Co	39 60
Union Brass Foundry	14 38
Welch Bros	32 00
Wm. Wiegley & Co	11 30

2,252 41

For Carriages, Harnesses and Repairs :

R. R. Armitstead	36 73
R. Barris	22 10
Chas. E. Berry	9 65

Fire Department—Continued

For Carriages, Harnesses and Repairs—Continued

T. H. Brassard.....	14 40
E. P. Bryant.....	35 05
A. H. Cluer.....	5 60
Cross Awning and Sign Co.....	3 50
Donovan Harness Co.....	368 60
Gauthier & Lemire.....	106 90
G. K. Hammond	8 05
C. H. Hanson & Co.....	66 75
F. M. Bill & Co.....	325 30
D. W. Parker.....	77 75
Parker Harness Co	13 55
C. N. Perkins Co.....	18 00
A. Roy	31 55
Sawyer Carriage Co.....	614 81
Salois & Leith.....	10 25
J. H. Sparks	9 50
J. H. Swell.....	21 47

1,799 51

For Electrical and Automobile Supplies:

Church St. Auto Corp.....	80 21
L. A. Derby & Co.....	56 53
Diamond Rubber Co.....	2 50
M. S. Feindel	24 30
Fish Rubber Co.....	501 55
Gamewell F. A. & Tel. Co.....	83 72
Lowell Automobile Co.....	15 20
Knox Automobile Co	5 30
Pitts Auto Supply	10 80
The Electric Goods Mfg Co.....	10 06
Tucke & Parker Co.....	53 29

843 39

For Sundries:

App. Public Bldgs O. E.	30 78
G. C. Braxmar Co.....	106 75
Burnham & Davis Lumber Co.....	14 64
Edward Cawley	3 50
Walter Coburn Co.....	24 00
Cross Awning & Sign Co.....	17 50
Davis & Sargent Lumber Co.....	2 40
F. J. Flemings	54 00

Fire Department—Continued**For Sundries :—Continued**

T. G. Gladding.....	8 00
W. D. Goff	13 80
H. L. Gonzales.....	5 00
C. H. Hanson Co.....	5 00
R. H. Haynes	20 19
G. E. Hutchins.	96 65
F. W. Jenness.....	3 00
F A Kappler	5 00
S. Kershaw & Son.....	1 75
O. F. Kress & Son	3 75
N. D. Lafleur.	2 56
Abbott Lawrence	1 50
Lowell Inn	14 00
Lundberg Bros	58 62
J. Edwin Lyle.....	3 50
G. E. Maker	10 00
McKissock S. C. Cleaning Works	12 25
E. A. McQuade	3 00
E. Moran.....	5 00
W. W. Morrison.....	15 00
Morrison Maine Slate Co.....	11 00
J. B. Murkland & Son	3 00
New American	5 00
H. R. Packard... ..	17 50
Pawtucketville Cash Grocery	17 00
Amasa Pratt Co.....	11 80
Pratt & Forrest	11 03
Harry Raynes.....	5 75
Rice & Co.....	12 60
Richardson Hotel	15 85
Scripture's Laundry.....	118 56
E. E. Smith & Co.....	75
J. H. Sparks	32 50
H. W. Tinker.....	1 65
Waverly Hotel	9 00
W. E. Westall.....	66 15
H. F. Whiting.....	1 23
J. C. Wood.....	13 25
Sam Yafa.....	4 00

898 77

28,077 59

Fire Department—Continued**New Apparatus**

Balance January 1, 1910	12,264 34	
		<u>12,264 34</u>

Expended

American La France Fire Engine Co.....	4,225 00	
International Power Co.....	2,910 00	
Knox Automobile Co.....	4,820 00	
A. O. Knapp.....	160 00	
		<u>12,115 00</u>
Returned to General Treasury Fund.....		149 34
		<u>12,264 34</u>

New Centralville Fire House

Balance January 1, 1910	191 62	
		<u>191 62</u>

Expended

App. Streets Labor	134 00	
H. C. Fuller.....	50 00	
		<u>184 00</u>
Returned to General Treasury Fund.....		7 62
		<u>191 62</u>

Underground Wires

Appropriation	3,000 00	
		<u>3,000 00</u>
Balance to 1911.....	3,000 00	
		<u>3,000 00</u>

RIFLE RANGE**Wages**

Appropriation	626 00	
		626 00

Expended

For Wages :		
To Sundry Persons	626 00	
		626 00

Other Expenses

Appropriation	302 95	
		302 95

Expended

App. Public Buildings, Labor.....	19 06	
Bay State Military Association	50 36	
Boutwell Bros.....	2 12	
Edward Cawley	15 00	
Co. C, 6th Regt.....	79 51	
H. C. Girard Co.....	42	
N. E. Tel. & Tel. Co.....	40 00	
Amasa Pratt Co.....	17 66	
G. C. Prince & Son	34 25	
Sundry Persons Labor.....	24 40	
Thompson Hardware Co.....	1 50	
Tucke & Parker Co.....	18 67	
		302 95

BUILDING DEPARTMENT

Wages

Appropriation	6,884 12	
		<u>6,884 12</u>

Expended

To Sundry Persons, Carpenters, Painters	6,884 12	
		<u>6,884 12</u>

Other Expenses

Appropriation	9,528 71	
		<u>9,528 71</u>

Expended

For Board of Horses :

O. P. Davis	300 00	
Lowell Coach Co.....	313 00	
J. H. Sparks.....	546 12	
		<u>1,159 12</u>

For Shoeing Horses :

James Blakely.....	33 45	
A. D. Mitten	50 00	
Geo. R. Morse.....	35 50	
Henry Reynolds.....	49 50	
J. H. Sparks.....	2 50	
		<u>170 95</u>

For Paints, Oils, etc. :

Adams Hardware & Paint Co.....	49 00	
C. B. Coburn Co.....	111 01	
Talbot Dyewood & Chemical Co.....	1 95	
		<u>161 96</u>

Building Department—Continued

For Express, Transportation, etc.:

American Express Co.	2 35
Boston & Maine R. R.	1 06
Lowell Coach Co.	50
C. K. Miller.	20 00
New York & Boston Despatch Express Co. . .	50
J. H. Sparks.	2 50

26 91

For Carriages, Harnesses and Repairs:

Donovan Harness Co.	3 50
C. H. Hanson & Co.	30
F. B. Hill & Co.	18 65
D. W. Parker.	5 50
Salois & Leith.	119 70
J. H. Sparks.	18 55

166 20

For Plumbing, Pipe Fitting, etc.:

H. R. Barker Mfg Co.	146 90
Boston Engineers Supply Co.	13 65
Carroll Bros.	9 06
J. D. Danahy	67 07
L. A. Derby Co.	29 57
H. S. Drury.	126 00
Fairbanks Co.	44 16
Farrell & Conaton	41 64
C. E. Gee	58 14
J. L. Jorden	56 18
W. C. Hinckley	18 82
C. F. Hoisington & Son	27 40
J. M. Jones	1 50
J. J. Kelley & Co.	60 89
A. P. Knapp	23 25
Lowell Furnace Co.	227 74
W. A. Mack Co.	5 40
J. J. McCarron & Co.	76 96
J. F. McMahon & Co.	24 05
Middlesex Machine Co.	7 18
Monarch Steam Blower Co.	80 75
J. M. Mullaney.	84 12
N. E. Electric & Supply Corp.	95

Building Department—Continued**For Plumbing, Pipe Fitting, etc.:**

Regan & Kerwin.....	1 65
Rice & Co.....	22 32
Scannell Boiler Works	142 03
Scott & O'Day Co.....	820 38
E. T. Shaw Co.....	505 61
J. S. Turner Mfg Co.....	13 24
Tucke & Parker Co.....	58 14
Welch Bros.....	332 00
H. H. Wilder & Co.	37 50
H. R. Worthington.....	4 74
Wm. Wrigley & Co.....	3 45

 3,172 44
For Plastering, Roofing, Concrete, etc.:

Cyrus Barton	225 00
E. Bibeault	116 20
J. Burns & Son	20 67
Edward Cawley	24 16
M. F. Connor	39 60
J. L. Douglas & Co.....	2 50
C. F. George & Co.....	25 60
Philip Ginty.....	38 75
Jas. F. Mooney	37 59
Samuel E. Snow.....	81 34
Jas. Walsh & Son ...	308 21
E. A. Wilson & Co.....	65 34

 984 96
For Lumber:

Burnham & Davis Lumber Co....	873 42
Davis & Sargent Lumber Co....	213 00
Amasa Pratt Co....	447 79
Pratt & Forrest	396 16

 1,930 37
For Stationery, Printing, etc.:

Carter's Ink Co.....	38
Courier-Citizen Co.....	47 90
Dumas & Co.....	5 25
C. E. Galley.....	5 95

Building Department—Continued

For Stationery, Printing, etc.—Continued

Lawler Printing Co.....	9 50
Lowell Sun.....	9 50
G. C. Prince & Son.....	22 40
Sampson & Murdock Co.....	3 00
Union Printing Co.....	87 35

191 23

For Hardware, etc.:

Adams Hardware & Paint Co.....	88 00
J. Albert	27 75
American Mason Safety Tread Co.....	170 90
J. C. Bennett.....	49 67
Bartlett & Dow	12 05
W. T. S. Bartlett.....	7 80
Boston Steam Specialty Co.....	2 28
C. B. Coburn Co.....	57 10
Cheney & Thomson Co.....	162 60
C. E. Gee	31 25
H. C. Girard Co	23 45
J. B. Goodwin	1 00
W. A. Mack Co.....	9 78
Rice & Co.....	43 72
E. E. Smith & Co.....	25
Thompson Hardware Co	18 03
J. S. Turner & Co.....	3 47

709 10

For Sundries:

App. Water Works	83 05
Joseph Albert	12 75
C. B. Coburn Co	26 94
J. B. V. Coburn ...	4 40
Cook, Taylor & Co.	9 79
Gilbride Co	30 97
J. B. Goodwin.....	3 10
C. H. Hanson Co.....	5 00
W. E. Hatch	50
C. F. Hutchins	63 00
F. W. Jenness	6 00
Lowell Electric Light Corp	252 84
Lowell Gas Light Co.....	15 10
Lowell Wall Paper Co.....	140 02

Building Department—Continued

For Sundries—Continued

N. E. Tel. & Tel. Co.....	11 99
Pawtucketville Cash Grocery.....	60
A. G. Pollard Co.....	11 87
Richardson Hotel	16 50
St. Johns Hospital.....	19 00
Simpson & Rowland.....	3 13
J. H. Sparks.....	86 45
J. A. Weinbeck	48 75
W. E. Westall.....	2 57
H. F. Whitney	1 25

855 47

9,528 71**WIRE DEPARTMENT****Salaries**

Appropriation	2,226 00
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2,226 00**Expended**

To William R. Foster, Inspector.....	1,600 00
A. M. Wood, Clerk	626 00

2,226 00**Other Expenses**

Appropriation	339 28
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339 28

Wire Department—Continued**Expended**

For Stationery, Printing, etc.:

Baker Printing Co.....	11 00
Buckland Printing Co.....	12 00
Dumas & Co.....	15 25
Electrocraft Publishing Co.....	1 00
Electrical Review & Pub. Co.....	3 00
Chas. E. Galley	7 65
H. C. Kittredge.....	2 70
G. C. Prince & Son.....	21 35
Sampson & Murdock Co.....	3 00

76 95

For Sundries:

American Express Co.....	40
O. P. Davis	8 00
L. A. Derby.....	1 50
W. B. Foster	98 15
Lowell Coach Co ...	8 00
C. K. Miller.....	20 25
N. E. Tel. & Tel. Co.....	8 58
Wm. L. Puffer.....	50 00
F. E. Putnam.....	4 00
Richardson Hotel.....	35 45
J. H. Sparks.....	28 00

262 33

339 28

CITY SEALER**Salaries and Wages**

Appropriation	1,772 00
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1,772 00

City Sealer—Continued**Expended**

John W. Stott, Sealer.....	1,200 00	
John Nestor, Clerk.....	570 00	
		<hr/>
		1,770 00
Returned to General Treasury Fund.		2 00
		<hr/>
		1,772 00
		<hr/>

Other Expenses

Appropriation	525 91	
		<hr/>
		525 91
		<hr/>

Expended**For Stationery, Printing, etc.:**

Baker Printing Co.....	14 00	
Courier-Citizen Co.....	1 95	
G. C. Prince & Son	6 30	
Sampson & Murdock Co.....	3 00	
		<hr/>
		25 25

For Sundries:

Boston & Maine R. R.....	21 00	
C. B. Coburn Co.....	1 60	
J. J. Donnelley.....	11 40	
W. & L. E. Gurley.....	39 20	
Knowles Scale Works	9 82	
Mussey Towel Supply Co.	2 40	
Tyler A. Stevens.....	32 57	
George H. Taylor.....	220 17	
D. Whiting & Son	162 50	
		<hr/>
		500 66
		<hr/>
		525 91
		<hr/>

MOTH AND BEETLE EXTERMINATION

Appropriation	9,000 00	
		<u>9,000 00</u>

Expended

For Wages:

To Sundry Persons.....	6,210 51	
		<u>6,210 91</u>

For Stationery, Printing, etc.:

Davis Printing Co	41 90	
Dumas & Co	52 31	
G. C. Prince & Son.....	126 00	
Wright & Potter Printing Co....	42 00	
		<u>262 21</u>

For Hardware, etc.:

Automatic Pruner Co.	4 15	
H. R. Parker Mfg Co.....	12 62	
Bartlett & Dow.....	72 49	
Boston Engineers Supply Co.....	3 25	
C. B. Coburn Co.....	9 90	
Frost Insecticide Co	7 50	
W. A. Mack Co.....	35	
Olds Gas Power Co....	1 75	
Thompson Hardware Co.....	1 00	
Tucke & Parker Co.....	3 00	
		<u>116 01</u>

For Use of Horses, Teaming, etc.:

C. H. Hanson Co.	321 05	
		<u>321 05</u>

For Sundries:

App. Parks O. E.....	119 00	
American Express Co.....	1 50	
G. H. Bachelder.....	2 50	

Moth and Beetle Extermination—Continued

For Sundries—Continued

Barrett Mfg Co.....	18 00	
Boston & Maine R. R.....	5 90	
E. P. Bryant.....	5 00	
C. B. Coburn Co.....	56 79	
E. Porter Felt.....	4 00	
G. E. Hutchins	15 65	
Manchester & Concord Express Co.....	2 15	
N. E. Tel. & Tel. Co.....	1 37	
Olds Gas Power Co....	1,109 85	
Pratt & Forrest	55 99	
Scripture's Laundry	1 35	
J. H. Sparks.....	3 00	
Talbot Dyewood & Chemical Co ...	672 25	
Tucke & Parker Co ...	2 10	
Chas. A. Whittet.....	13 82	
		2,090 22
		9,000 00

CARE OF TREES

Appropriation.....	800 00	
		800 00

Expended

For Wages :

To Sundry Persons.....	634 39	
		634 39

For Sundries :

Bartlett & Dow	33 28
J. B. Bennett	6 94
E. P. Bryant.....	7 67
F. C. Church.....	55 72
C. B. Coburn Co.....	12 38
H. L. Gonzales	2 75

Care of Trees—Continued**Sundries—Continued**

C. H. Hanson Co.....	22 50
Pratt & Forrest	3 12
C. N. Rice	19 75
Salois & Leith.....	1 50

165 61

800 00

FISH WARDEN

Appropriations	40 00
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40 00

Expended

To George T. Spence	40 00
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40 00

POUND KEEPER

Appropriation	5 00
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5 00

Expended

To O. W. Peabody.	5 00
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5 00

BUILDING FUND

Balance January 1, 1910.....	49,708 00
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49,708 00

Balance to 1911.....	49,708 00
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49,708 00

REPAIRS ON FIRE SIGNAL SYSTEM

Appropriation	1,000 00	
		<u>1,000 00</u>

Expended

Gamewell Fire Alarm Telegraph Co.	732 00	
New York, New Haven & Hartford R. R.	3 30	
OKonite Co.	259 50	
Upton & Gilman.....	5 18	
		<u>999 98</u>
Return to General Treasurer Fund.....		02
		<u>1,000 00</u>

FIRE HOUSE REPAIRS

Appropriation	2,700 00	
		<u>2,700 00</u>

Expended

For Wages:		
To Sundry Persons.....	1,378 42	
		<u>1,378 42</u>

For Hardware, Fittings, etc.:

Adams Hardware and Paint Co.....	8 30
American Mason Safety Tread Co.....	50 00
J. C. Bennett	13 54
Cheney & Thomson Co.	33 82
Curtin & Spillane.....	107 75
L. A. Derby & Co.	121 00
H. S. Drury.....	106 01
E. F. Farrell.....	55 00
Gaffney & Kerwin	395 29
G. A. Lovejoy.....	8 00
Lowell Furnace Co.....	26 03

Fire House Repairs—Continued

For Hardware, Fittings, etc.—Continued

J. F. McMahon & Co.	104 20	
Edward Meloy	241 25	
Scott & O'Day.....	221 92	
Thompson Hardware Co.....	17 25	
		<hr/>
		1,509 36

For Lumber:

Burnham & Davis Lumber Co.....	127 95	
Amasa Pratt Co	58 23	
Pratt & Forrest	10 50	
		<hr/>
		196 73

For Mason Work, etc.:

B. F. Crosby & Co.....	117 00	
Gumb Bros	20 00	
Staples Bros	284 15	
		<hr/>
		421 15

For Sundries:

American Mason Safety Tread Co.....	34 42	
C. B. Coburn Co.....	2 33	
W. E. Hatch.	64 00	
Lowell Gas Light Co.....	93 41	
		<hr/>
		194 16

		3,699 82
Returned to General Treasury Fund		18
		<hr/>
		3,700 00
		<hr/>

POLICE UNDERGROUND WIRES

Appropriation.....	4,000 00	
		<hr/>
		4,000 00
		<hr/>
Balance to 1911	4,000 00	
		<hr/>
		4,000 00
		<hr/>

POLICE AUTO PATROL

Appropriation	5,600 00	
	<hr/>	5,600 00

Expended

To E. R. Thomas Motor Branch Co.	5,600 00	
	<hr/>	5,600 00

NEW FIRE ALARM BOXES

Appropriation	500 00	
	<hr/>	500 00

Expended

H. R. Barker Mfg Co.	9 89	
Cheney & Thomson Co.	131 62	
Gamewell Fire Alarm Telegraph Co.	270 00	
The OKonite Co.	81 25	
	<hr/>	492 76
Returned to General Treasury Fund		7 24
		<hr/>
		500 00

NEW BOILER AT CENTRAL FIRE STATION

Appropriation	900 00	
	<hr/>	900 00

Expended

To D. J. Leary	890 00	
	<hr/>	890 00
Returned to General Treasury Fund.		10 00
		<hr/>
		900 00

SMOKE INSPECTOR

Appropriation	100 00	
	<hr/>	100 00

Expended

For Office Supplies :

T. F. McCarthy	5 00	
N. E. Engineer.	50	
Power and The Engineer	2 00	
G. C. Prince & Son.....	20 05	
Technical Publishing Co	1 50	
Typewriter and Office Supply Co.....	17 50	
	<hr/>	46 55

For Sundries :

Adams & Co.	43 00	
J. F. Kelley.....	4 00	
T. H. Kelley	3 00	
F. B. Leeds	1 00	
J. A. McEvoy	1 34	
H. W. O'Brien.....	1 00	
	<hr/>	53 34

	99 89	
Returned to General Treasury Fund	11	
	<hr/>	100 00

3—HEALTH AND SANITATION

Health Office; Health, O. E.; Health Yard, W.; Health Yard, O. E.; Milk Inspection, W.; Milk Inspection, O. E.; Inspection of Animals, W.; Inspection of Animals, O. E.; Sewer Maintenance, W.; Sewer Maintenance, O. E.; Sewer Construction; Wigginville Sewer; School Inspection; Contagious Hospital.

HEALTH OFFICE

Salaries and Wages

Appropriation	10,167 59	
		10,167 59

Expended

For Board of Health:

Leonard Huntress	485 31	
Geo. F. Martin	500 00	
D. J. Murphy	500 00	
J. A. Osgood	14 69	
		1,500 00

To Fred A. Bates, Agent...	1,825 00	
Thos. B. Smith, Bacteriologist.....	600 00	
		2,425 00

For Clerks:

Catherine Snow	551 25	
Emma E. Hurley	188 34	
		739 59

Health Office—Continued

To Sundry Persons, Services as Inspectors	5,503 00	
		5,503 00
		<u>10,167 59</u>

Other Expenses

Appropriation	7,092 17	
		<u>7,092 17</u>

Expended**For Stationery, Printing, etc.:**

American Journal of Public Hygiene	1 50
D. Appleton & Co.....	6 00
Baker Printing Co	31 00
Buckland Printing Co.	45 50
Butterfield Printing Co.....	3 50
Carter's Ink Co	1 50
Courier-Citizen Co..	19 84
Davis Printing Co.....	4 75
Dumas & Co.	28 75
B. W. Huebsch	1 40
H C. Kittredge	1 50
Lawler Printing Co.....	70 00
Library Bureau	3 00
Lowell Sun.....	6 75
Lowell Telegram.....	3 00
Municipal Engineering Co....	2 00
Municipal Journal and Engineer	3 00
G. C. Prince & Son	51 60
Sampson & Murdock Co.....	6 00
A. L. Shipmans Sons.....	72
Union Printing Co.....	216 75

503 06

For Laboratory Supplies:

Dr. H. M. Alexander & Co.....	139 75
F. & E. Bailey & Co.....	7 25
Bausch & Lomb Optical Co.	11 70
Clinton Mfg. Co.....	15 00

Health Office—Continued**For Laboratory Supplies—Continued**

C. B. Coburn Co.....	3 00
Eimer & Amend.....	7 08
J. R. Fallon	6 00
C. F. Hatch & Co.....	10 00
R. J. Lang & Co.....	16 40
Talbot Dyewood & Chemical Co....	13 15
F. H. Thomas Co.....	22 25
Williamstown Glass Co.....	27 39
Wilmond Castle Co.....	17 00

295 97

For Professional Services :

D. S. Bellehuemer	24 00
W. Collins	17 00
A. E. Gillard	61 00
T. J. Halloran	23 00
A. J. Halpin.....	13 00
H. W. Jewett	111 00
W. A. Johnson.....	472 00
J. P. Kearney	15 00
J. E. Leary	76 00
E. G. Livingston.....	25 50
E. M. Murphy.....	14 50
F. P. Murphy	68 00
T. B. Smith	82 00

1,002 00

For Express, Transportation, etc.:

American Express Co.	13 45
F. A. Bates	1 65
Boston & Lowell Express Co....	15
Boston & Northern St. Ry.....	40 00
Manchester & Concord Express Co.....	1 55
C. K. Miller	20 25
New York, New Haven & Hartford R. R	1 50
J. H. Sparks.....	6 00

84 55

Health Office—Continued**Care of Patients in Hospitals, etc. :**

City of Boston	401 45
City of Cambridge.....	175 29
City of Fall River	27 00
City of Holyoke	55 14
City of Malden	235 28
City of Worcester	82 24
Commonwealth of Massachusetts	635 00
Lowell Hospital	501 36
Lowell General Hospital	56 00
Lynn Board of Health	54 43
Mass. State Sanatorium	304 60
No. Reading Sanatorium	701 33
St John's Hospital.....	379 00
Somerville Board of Health.....	61 86
Tewksbury State Hospital	434 40

 4,104 38
For Sundries :

Adams Hardware & Paint Co.....	3 00
Baltimore Enamel & Novelty Co.....	70 50
F. A. Bates	14 70
J. C. Bennett.....	25
O. Bernard	8 00
J. S. Brooks.....	15 73
W. H. Brown	2 73
Cheney & Thomson Co.....	60
J. J. Connell	2 60
Cook, Taylor & Co.....	6 00
M. Alice Cox	27 00
J. H. Dunham	8 00
Everett Market	66 00
David Gerow	2 00
J. G. Hill	15 00
J. Kliss	1 99
R. J. Lang & Co.....	3 25
Ovide Lavasseur.....	2 00
Lowell Cash Market	18 09
Mass. Association Board of Health	8 00
J. H. McDermott	3 00
M. H. McDonough	3 00
J. W. McKenna	3 00
Manuel Netto	3 80
N. E. Tel. & Tel. Co.....	12 72
C. M. Ohlson	6 30

Health Office—Continued**For Sundries—Continued**

Mrs. Martin O'Laughlin	42 00	
Pawtucketville Cash Grocery.....	7 75	
Omer Ploceff	50 00	
A. G. Pollard Co.....	5 25	
Rice & Co.....	1 56	
Robertson Co.....	1 25	
Royal Cash Market	16 05	
Rose Scott	12 00	
S. Sobezak	4 32	
John J. Sullivan	12 00	
Scott & O'Day Co.....	1 50	
Stanley Coal & Transportation Co.....	3 00	
App. Charity Hospital	265 24	
App. Charity O. D. R.....	362 03	
App. Public Buildings	6 00	
		<u>1,097 21</u>
		<u>7,902 17</u>

HEALTH YARD**Wages**

Appropriation	35,083 18	
		<u>35,083 18</u>

Expended**For Wages:**

To Sundry Persons	35,083 18	
		<u>35,083 18</u>

Other Expenses

Appropriation	10,555 74	
		<u>10 555 74</u>

Health Yard—Continued**Expended**

For Horses, Use of Horses, Teaming :

C. H. Hanson Co.	757 00	
C. P. Salls.....	127 00	
Delia Vaughan	600 00	
		<hr/>
		1,484 00

For Water and Lighting:

App. Water Works.....	154 12	
Lowell Electric Light Corp.....	17 71	
Lowell Gas Light Co.....	49 23	
		<hr/>
		221 06

For Hay, Grain, etc. :

J. B. Cover & Co.....	27 72	
G. M. Foster	297 90	
F. A. Fox, Est.....	310 95	
Livingston Grain Co	269 66	
T. J. McDonald	162 66	
Joseph Mullin	1,523 81	
H. E. Noyes & Son.....	752 15	
G. N. Parker	573 21	
Paul Vigant	301 40	
Wilder & Cotton	1,647 74	
		<hr/>
		5,867 20

For Paints, Oils, etc.:

J. C. Bennett	19 40	
Cheney & Thomson Co	6 50	
C. B. Coburn Co.....	21 60	
Hall Paint and Hardware Co	19 50	
W. W. Morrison....	2 50	
Talbot Dyewood & Chemical Co.....	16 70	
		<hr/>
		86 20

For Hardware, Fittings, etc.:

Adams Hardware and Paint Co.....	9 00	
F. G. Baldwin	4 51	
H. R. Barker Mfg Co.	90	
W. T. S. Bartlett ...	3 10	

Health Yard—Continued

For Hardware, Fittings, etc.—Continued

J. C. Bennett	34 35
Boutwell Bros	411 71
Cheney & Thomson Co.....	25 80
C. B. Coburn Co.....	5 07
F. W. Ceagin Co.....	50
L. A. Derby & Co.....	2 60
W. A. Mack Co.....	10 78
N. E. Electric & Supply Corp.....	93
Scannell Boiler Works	139 20
Thompson Hardware Co....	3 59
D. H. Wilson & Co.....	4 76

 656 80

For Carriages, Harnesses and Repairs :

Donovan Harness Co.....	383 67
D. W. Parker	36 00
Parker Harness Co.....	3 00
Sawyer Carriage Co.....	94 31

 516 98

For Fuel, Cement, etc. :

A. A. Brown.....	160 62
Edward Cawley	97 53
Horne Coal Co	20 28
Joseph Mullin	251 86
E. A. Wilson & Co.....	18 17

 548 46

For Sundries:

App. Fire Dept. O. E	250 00
Baker Printing Co.....	5 75
F. & E. Bailey Co.....	44 00
Otto Beruz	18 75
Buckland Printing Co.....	15 75
F. C. Church	25 00
C. B. Coburn Co	1 85
J. B. V. Coburn ..	1 90
Connors Bros	175 00
Cross Awning & Sign Co.....	68 50
De Prey Chemical Co	75 00
J. L. Fairbanks & Co.....	2 52

Health Yard—Continued**For Sundries :—Continued**

Frye & Crawford Co.....	5 40
Gilbride Co.....	6 25
Horne Coal Co.....	7 00
G. E. Hutchins.....	1 50
Kennedy & Co.....	6 20
C. D. Kent.....	5 00
L. S. Kimball.....	7 50
A. L. Kittredge & Co.....	4 50
K. J. Lang & Co.....	4 00
Fred O. Lewis.....	4 20
D. A. Long.....	225 00
Lowell Laundry.....	45 00
F. E. McNabb.....	6 30
E. A. McQuade.....	27 90
N. E. Tel. & Tel. Co.....	1 26
O'Sullivan Bros. Co.....	6 75
Pawtucketville Cash Grocery.....	9 00
Amasa Pratt Co.....	28 10
Pratt & Forrest.....	16 56
G. C. Prince & Son.....	35
Robertson Co.....	1 50
M. T. Senecal.....	4 00
Shepard, Clark & Co.....	10 80
W. A. Sherman.....	44 50
Sunlight Shoe Store.....	5 50
Talbot Dyewood & Chemical Co....	90
H. L. Timmons.....	5 35
G. A. Wilson & Co.....	70

1,175 04

10,555 74

MILK INSPECTION**Salaries and Wages**

Appropriation	2,204 25
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2,204 25

Milk Inspection—Continued**Expended**

To Melvin F. Master, Inspector	1,500 00	
James E. Hill, Collector	704 25	
		<u>2,204 25</u>

Other Expenses

Appropriation	379 38	
		<u>379 38</u>

Expended**For Stationery, Printing, etc.:**

Baker Printing Co.....	14 25	
Buckland Printing Co.....	9 50	
Courier-Citizen Co.....	2 85	
Craftsman Press.....	7 65	
G. C. Prince & Son.....	11 30	
Sampson & Murdock Co.....	3 00	
Union Printing Co.....	5 80	
		<u>54 35</u>

For Laboratory Supplies:

Carleton & Hovey	35	
C. B. Coburn Co.....	45	
Eimer & Amend.....	137 82	
G. E. Hutchins	3 75	
J. M. Kilderff.....	2 00	
H. C. Page.....	3 50	
Talbot Dyewood & Chemical Co.....	15 56	
Williamstown Glass Co.....	51 45	
		<u>214 88</u>

For Sundries:

American Express Co.....	2 10	
J. C. Bennett	1 50	
Boston & Maine R. R.	1 20	
Conway Transfer Co.....	75	

Milk Inspection—Continued**For Sundries—Continued**

L. A. Derby & Co.....	10 50	
Peter Gray & Sons.....	32 00	
W. A. Mack Co.....	9 40	
Manchester & Concord Express Co ..	2 10	
M. F. Master.....	10 17	
N. E. Tel. & Tel. Co.....	39 43	
New York & Boston Despatch Express Co..	40	
New York, New Haven & Hartford R. R ...	35	
Stanley Coal & Transportation Co.....	25	
		110 15
		<u>379 38</u>

INSPECTOR OF ANIMALS**Salary**

Appropriation.....	500 00	
		<u>500 00</u>

Expended

To W. A. Sherman, Inspector ..	500 00	
		<u>500 00</u>

SEWER MAINTENANCE**Wages**

Appropriation ...	15,601 83	
		<u>15,601 83</u>

Sewer Maintenance—Continued**Expended****For Labor:**

To Sundry Persons.....	15,601 83	
		<u>15,601 83</u>

Other Expenses

Appropriation	6,972 24	
		<u>6,972 24</u>

Expended**For Carriages, Harnesses and Repairs:**

Donovan Harness Co.	9 00	
Parker Harness Co	4 00	
Sawyer Carriage Co	4 90	
		<u>17 90</u>

For Boots and Repairing:

Samuel Fleming	14 95	
O'Sullivan Bros. Co.....	51 50	
F. H. Pearson Co	6 00	
Sunlight Shoe Store	41 00	
		<u>113 45</u>

For Lumber:

Burnham & Davis Lumber Co....	324 89	
Davis & Sargent Lumber Co....	221 35	
Amasa Pratt Co	255 90	
		<u>802 14</u>

For Hardware, Tools, etc.:

App. Water Works	4 85	
Adams H. & P. Co.....	89 39	
H. R. Barker Mfg Co.....	29 00	
J. C. Bennett	61 47	

Sewer Maintenance—Continued

For Hardware, Tools, etc.—Continued

F. M. Bill & Co.....	1 00
Boston Engineers Supply Co.....	390 36
Boutwell Bros.....	198 11
Brown Hosiery Co.....	1 50
Carroll Bros.....	2 20
Challenge Tube Cleaner Co.....	1 20
Cheney & Thomson Co.....	281 12
C. B. Coburn Co.....	88 60
L. A. Derby Co.....	9 82
Derby & Morse.....	13 98
Farrell & Conaton	78
J. Fernley	4 50
H. C. Girard Co	78 75
C. F. Horsington & Son	178 00
Knowles Scale Works.....	16 50
W. A. Mack Co.....	26 03
W. McLarney & Co.....	48 33
Middlesex Machine Co.....	35 94
N. E. Electric Supply Corp.....	4 85
Nichols Foundry Co	11 04
F. S. Perkins Co.....	7 10
Rice & Co.....	5 10
Scannell Boiler Works	15 79
E. T. Shaw.....	9 75
Staples Bros.....	84
Thompson Hardware Co.....	32 68
Tucke & Parker Co ...	50 00
Union Brass Foundry.....	35
Union Iron Foundry.....	210 17
H. H. Wilder & Co	3 30
Wm. Zimmer	3 00

1,915 40

For Brick, Cement, Fuel, etc.:

Edward Cawley.....	212 68
H. V. Hildreth.....	20 09
Horne Coal Co.....	41 63
Staples Bros.....	84
E. A. Wilson & Co.....	42 00

317 24

Sewer Maintenance—Continued

For Sundries:

App. Water Works	9 90
A. J. Alley.	17 83
W. H. Bean	6 00
A. G. Beharrell	12 25
Boston Engineers Supply Co.....	332 55
Boston & Maine R. R.....	18 63
Arthur A. Clark	37 75
C. B. Coburn Co.....	81 70
Walter Coburn Co.....	20 24
Cross Awning & Sign Co.....	3 00
J. L. Douglass & Co	20 17
S. A. Holtham.....	25 80
G. E. Hutchins	21 68
Lowell Electric Light Corp ..	56 97
Lowell Gas Light Co.....	8 01
Lowell Waste Co.	10 35
Manchester & Concord Express Co.....	95
E. E. McCauslin.....	18
T. J. McDonald	7 65
Geo. McQuesten & Co.....	162 80
John Mountford	84 00
Jas. Murkland & Son.....	50 15
H. E. Noyes & Son.....	1 53
D. L. Page Co.....	7 15
Pawtucketville Cash Grocery	63 00
G. C. Prince & Son	4 50
A. L. Ready & Son.....	4 50
Richardson Hotel.....	10 10
St. John's Hospital.....	11 00
J. H. Sparks.....	11 00
Talbot Dyewood & Chemical Co.....	88
	<hr/>
	1,102 22
	<hr/>
	4,268 35
Returned to General Treasury Fund.	2,703 89
	<hr/>
	6,972 24
	<hr/>

SEWER CONSTRUCTION

Appropriation	50,039 16
	<hr/>
	50,039 16
	<hr/>

Sewer Construction—Continued

Expended

For Labor :

To Sundry Persons.....	32,231 55	
		32,231 55

For Cement, Pipe, etc.:

Edward Cawley	3,111 71	
E. A. Wilson & Co.....	3,940 19	
		7,051 90

For Hardware, Fittings, etc :

App. Water Works	4 35	
J. P. Robinson Iron Foundry....	443 43	
Union Iron Foundry	1,183 28	
		1,631 06

For Sundries :

App. Water Works	42 51	
App. Engineering	1,957 83	
App. Streets, O. E.....	449 84	
App. Sewer Maintenance, O. E.	2,851 85	
App. Sewer Maintenance, Wages	965 77	
App. Watering Streets.....	477 50	
App. Streets, Wages.....	136 59	
Boston & Maine R. R.....	57 60	
C. H. Hanson Co.	10 00	
F. H. Rourke	62 50	
C. P. Salls.....	32 50	
S. J. Spence	12 50	
Stanley Transportation Co..	10 00	
Execution of Court, Curley vs. City of Lowell.	1,839 32	

8,906 31

49,820 82

Return to General Treasury Fund..... 218 34

50,039 16

WIGGINVILLE SEWER

Balance January 1, 1910	823 04	
		<u>823 04</u>

Expended

Edward Cawley	99 09	
To Sundry Persons for Labor	673 93	
		<u>773 02</u>
Returned to General Treasury Fund.....		50 02
		<u>823 04</u>

SCHOOL INSPECTION

Appropriation	600 00	
		<u>600 00</u>

Expended

For Stationery, Printing, etc.:

Baker Printing Co.....	22 50	
Union Printing Co.....	6 50	
		<u>29 00</u>

For Labor:

To Sundry Persons	400 00	
		<u>400 00</u>

Returned to General Treasury Fund.		429 00
		<u>171 00</u>
		<u>600 00</u>

CONTAGIOUS HOSPITAL

Appropriation	1,000 00	
	<u> </u>	1,000 00
		<u> </u>
Balance to 1911.....	1,000 00	
	<u> </u>	1,000 00
		<u> </u>

4—HIGHWAYS AND BRIDGES

Street Dept., S.; Street Dept., W.; Street Dept., O. E.; New Sidewalks; Street Watering, W.; Street Watering, O. E.; Street Lighting; Pav. Merrimack, Bridge Sts., etc.; State Highway Tax; Pav. Merrimack, Prescott Sts., etc.; Macadamizing Streets; Congress and Billerica St. Bridge; Lawrence St. Meadow Brook; Shaw St. Extension; Church St. Storm Guards.

STREET DEPARTMENT

Salaries

Appropriation	4,000 19	
		<u>4,000 19</u>

Expended

Newell F. Putnam, Superintendent.....	2,000 00	
George W. Hartwell, Assist. Superintendent.....	1,400 03	
Clarence H. Raymond, Clerk.....	600 16	
		<u>4,000 19</u>

Wages

Appropriation	119,569 16	
		<u>119,569 16</u>

Expended

For Labor:		
To Sundry Persons	119,569 16	
		<u>119,569 16</u>

Street Department—Continued**Other Expenses**

Appropriation	68,117 91	
		<u>68,117 91</u>

Expended

For Paints, Oils, etc.:

F. G. Baldwin	13 75	
J. C. Bennett	8 93	
Boston Engineers Supply Co.....	307 80	
Caucos Mfg Co.....	12 00	
M. D. Clay.....	1 85	
C. B. Coburn Co.....	699 27	
Walter Coburn Co.....	52 93	
Lowell Waste Co.	21 42	
George Paquette.....	25 00	
Stanley Garage	2 50	
		<u>1,144 85</u>

For Gravel, Stone, Cement, Fuel, etc.:

E. Bibeault	86 97	
John Brady	62 50	
G. A. Brown.....	78 75	
P. Carlin	100 00	
Edward Cawley	1,418 49	
H. E. Fletcher Co....	76 50	
Hassam Paving Co.....	48 50	
H. V. Hildreth ..	2,801 03	
Horne Coal Co.....	914 39	
T. Larkin.....	23 60	
F. A. Malorey	186 89	
Mass. Broken Stone Co.....	16 90	
Middlesex Granite Co ..	303 42	
Joseph Mullin	403 95	
John P. Quinn... ..	55 00	
E. A. & A. T. Smith.....	14,220 11	
Staples Bros.....	145 53	
Jas. Walsh & Son.....	1,310 21	
W. H. Ward Co.....	200 00	

Street Department—Continued

For Gravel, Stone, Cement, Fuel, etc.—Continued

E. A. Wilson & Co.....	1,165 14	
Winchester Rock & Brick Co.....	18 68	
		<hr/>
		23,641 61

For Express, Transportation, etc.:

Adams Express Co.....	6 40	
American Express Co.....	15 78	
Boston & Maine R. R.....	226 72	
Lowell Coach Co.....	8 00	
Manchester & Concord Express Co.....	3 90	
Mercier's Auto Livery	11 00	
New York & Boston Despatch Ex. Co.....	2 55	
New York, New Haven & Hartford R. R....	71 72	
J. H. Sparks.....	42 00	
Stanley Transportation Co.....	1 50	
		<hr/>
		389 57

For Veterinary:

C. A. Hamblett.....	158 00	
W. A. Sherman	87 50	
		<hr/>
		245 50

For Water, Lighting and Telephone:

App. Water Works	302 13	
Lowell Electric Light Corp.	335 41	
Lowell Gas Light Co.....	89 48	
N. E. Tel. & Tel. Co.....	149 76	
		<hr/>
		876 78

For Stationery, Printing, etc.:

Baker Printing Co.	7 25	
Buckland Printing Co.....	36 00	
Butterfield Printing Co.....	2 50	
Courier-Citizen Co	300 35	
Dumas & Co.....	8 50	
Municipal Journal	3 00	
G. C. Prince & Son.....	114 65	
Sampson & Murdock Co.....	6 00	
Union Printing Co.....	25 00	
		<hr/>
		673 25

Street Department—Continued

For Hay, Grain, etc.:

Joseph Bowers.....	553 31
Jas. Calnin	121 44
J. B. Cover & Co.	42 24
G. M. Foster	28 00
E. E. McCauslin.....	342 26
T. J. McDonald	372 10
Joseph Mullin	2,408 28
H. E. Noyes & Son.....	1,516 84
Geo. Paquette	60 00
G. N. Parker	218 79
Wilder & Wotton.....	6,808 31

12,471 57

For Carriages, Harnesses and Repairs:

F. N. Burnham	6 00
Donovan Harness Co.....	253 62
C. H. Hanson & Co.....	298 75
D. W. Parker	88 60
Sawyer Carriage Co.....	29 13
H. C. Stoehr & Co.....	109 86
J. H. Sparks.....	11 90

897 86

For Teaming:

A. Arsenault.....	42 50
A. G. Beharrell	23 70
P. F. Begley.....	8 00
E. Bibeault	47 50
A. D. Boynton.....	70 00
J. Brady.....	250 00
A. A. Brown	274 03
B. G. Brown.....	155 00
W. E. Brown.....	37 50
F. N. Burnham	7 50
Burnham & Davis Lumber Co....	91 25
P. Cogger.....	5 00
Connors Bros. Co.....	201 35
G. F. Fall.....	551 75
F. Fay.....	30 00
J. J. Gray	10 00
C. H. Hanson & Co.	1,348 75
E. M. Hefler Co.....	47 50

Street Department—Continued

For Teaming—Continued

C. I. Hood Co.....	42 00
F. K. Hubbard	10 00
A. B. Humphrey.....	32 50
B. W. Johnson.....	166 57
C. W. Johnson.....	6 00
T. H. Kelley	27 50
T. G. Little	103 75
J. Loiselles.....	42 50
G. Marcheldon	261 28
J. Mullin.....	22 50
E. J. Noyes	10 00
Wm. Oddie.....	182 50
G. Paquette	5 00
N. L. Peavey.....	40 00
O. F. Prentiss	40 00
J. P. Quinn.....	85 00
D. A. Reardon.....	22 78
F. R. Rourke	31 25
C. P. Salls.....	167 50
J. J. Smith.....	417 50
S. J. Spence	65 25
A. B. Stanhope.....	11 00
T. Vaughn.....	20 00
J. Walsh & Son	37 50
H. T. Wheeler.....	225 00
B. H. Wiggin.....	53 13
J. C. Wood.....	4 00

 5,333 34

For Lumber :

Burnham & Davis Lumber Co.	1,998 79
Davis & Sargent Lumber Co.....	6 67
C. M. Holmes	22 50
Amasa Pratt Co....	907 44
Pratt & Forrest	8 14
O. L. Smith	10 50

 2,954 04

For Hardware, Tools, etc. :

Adams Hardware & Paint Co.....	100 17
A. J. Alley.....	4 75

Street Department—Continued

For Hardware, Tools, etc.—Continued

H. R. Barker Mfg Co.....	51 32
W. T. S. Bartlett.....	96 60
Bartlett & Dow	68 00
F. E. Bassett	29 78
J. C. Bennett	213 04
Boston Engineer's Supply Co.....	1,019 99
H. L. Bond Co.....	296 74
Boutwell Bros.....	1,503 63
Buffalo Steam Roller Co.....	472 01
E. Buxton & Son	18 00
Cashman Chuck Co.	14 30
Cheney & Thomson Co.....	529 15
Arthur A. Clark	50
C. B. Coburn Co.....	234 25
F. W. Cragin & Co.....	1 50
L. A. Derby & Co.....	198 66
Derby & Morse	29 58
Doherty Bros.....	1 24
Eastern Oil Tank Co.....	69 50
Frye & Crawford Drug Co.....	1 20
H. C. Girard Co.....	6 00
Good Roads Machinery Co.....	668 50
C. E. Guthrie & Son.....	14 30
H. F. Harding.....	1 25
H. H. Harvey	5 38
C. F. Hoisington & Son	38 80
W. H. Hope Co.....	54
J. F. Kennedy & Co	110 20
W. D. Lafleur	35 49
D. Lovejoy & Son.....	14 80
Lull & Hartford	25
W. A. Mack Co.....	116 64
Wm. McLarney & Co.....	32 4
Middlesex Machine Co.....	101 55
N. E. Broom Co.....	9 00
Pickering Governor Co.....	7 15
Rice & Co	7 00
J. P. Robinson Iron Foundry	3 89
Sampson Draught Spring Co.....	10 00
Scannell Boiler Works	115 91
E. E. Smith	60 15
H. E. Stoehr & Co.....	109 76
Henry Thompson	251 76
Thompson Hardware Co	133 67
Tucke & Parker Co.....	1 25

Street Department—Continued

For Hardware, Tools, etc.—Continued

Union Brass Foundry	16 31	
Union Iron Foundry	57 17	
Upton & Gilman.....	2 80	
H. H. Wilder & Co	8 30	
J. C. Wood	6 00	
		<hr/>
		6,900 13

For Automobiles and Supplies :

A. G. Beharrell	1,924 50	
M. S. Feindel	20 50	
Merrimack Valley Automobile Co.	1 65	
Moody Bridge Automobile Co.	32 40	
Middle St. Garage	4 50	
Velie Motor Vehicle Co.....	5 00	
		<hr/>
		1,988 55

For Executions of Court :

Philip Gauthier	15 00	
Josephine Nolet	75 00	
		<hr/>
		90 00

For Houses :

Chas. Clapp & Co.....	575 00	
C. H. Hanson Co.....	2,365 20	
		<hr/>
		2,940 20

For Land :

Shaw Stocking Co., 7031 ft. and New Fletcher Street	703 10	
		<hr/>
		703 10

For Sundries :

G. H. Allard.....	17 50	
W. E. Badger	5 00	
F. G. Baldwin	17 45	
Barrett Mfg. Co.....	9 35	
Arthur Bartlett	29 65	

Street Department—Continued**For Sundries :—Continued**

F. M. Bill & Co.....	3 75
F. H. Butler & Co.....	13 00
G. L. Cady & Sons.....	1 50
Frank P. Cheney	1 50
C. B. Coburn Co.....	18 50
J. B. V. Coburn	4 25
J. H. Cogger.....	50 00
Connors Bros.	81 25
Cook, Taylor & Co.....	10 00
F. W. Cragin & Co.....	17 88
Cross Awning Co.....	148 50
Davis & Sargent Lumber Co....	1 50
T. L. Dickey & Co	127 50
J. J. Doherty & Co.....	4 00
J. L. Douglass.....	306 94
J. Albert Evans	54
S. Fleming	2 50
A. F. Frost	30 92
H. L. Gonzales	1 00
F. C. Hartwell.....	17 27
W. E. Hatch	21 44
C. M. Holmes	69 62
G. E. Hutchins	41 65
A. B. Illsley	7 90
A. Jean	4 90
A. E. Johnston	4 00
Wm. Karp	80 00
L. S. Kimball	5 25
W. H. Limburg	1 50
A. L. Kittredge	2 00
F. E. McNabb.....	157 38
J. C. Meyer & Co.....	2 00
A. D. Mitten.....	379 12
Edward Moran	55 00
W. W. Morrison.....	2 50
J. Mountford	3 50
Jas. Murkland & Son.....	15 88
F. T. Mussey	35 00
Geo. A. Nelson	7 50
O'Sullivan Bros. Co.....	78 75
Pawtucketville Cash Grocery.....	29 10
W. L. Peabody	18 20
F. H. Pearson Co.....	9 00
A. G. Pollard Co.....	2 50
F. E. Putnam	18 80
N. Putnam	36 25

Street Department—Continued**Sundries —Continued**

Ranlett Grocery Co.....	5 50
Richardson Hotel.....	22 55
W. J. Rodden	25 50
St. John's Hospital.....	42 50
Scandinona Belting Co.....	160 70
S. J. Spence.....	12 50
Abraham Smith	56
E. E. Smith	4 00
Henry Stoehr & Co.....	88 15
J. J. Sullivan.....	75
Talbot Dyewood & Chemical Co....	2 05
The Robertson Co.....	5 65
The New American	11 00
Time Mfg. Co.....	8 75
H. L. Timmons & Co.	33 10
Towers Corner Drug Store	2 50
Waverly Hotel.....	10 20
W. E. Westall.....	57 75
H. F. Whiting.....	6 97
App. Engineering	4,165 91
App. Sewer Maintenance Wages	66 63

6,737 31

67,987 66

Returned to General Treasury Fund

130 25

68,117 91

NEW SIDEWALKS

Appropriation	5,544 13
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5,544 13

Expended

For Labor:

To Sundry Persons	1,502 93
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1,502 93

Street Department—Continued

For Sundries:

App. Streets, Wages	433 61	
H. V. Hildreth.....	2,854 43	
E. A. & A. T. Smith.....	451 62	
Jas. Walsh & Son.....	301 54	
		<hr/>
		4 041 20
		<hr/>
		5,544 13
		<hr/>

STREET WATERING**Wages**

Appropriation	5,287 00	
		<hr/>
		5,287 00
		<hr/>

Expended

For Labor:

To Sundry Persons.....	4,967 66	
		<hr/>
		4,967 66
Returned to General Treasury Fund.....		319 34
		<hr/>
		5,287 00
		<hr/>

Other Expenses

Appropriation	15,872 13	
		<hr/>
		15,872 13
		<hr/>

Expended

App. Engineering.....	261 03	
App. Streets, O. E.....	2,680 00	
App. Water Works	1,877 49	
American Car Sprinkler Co.....	10,556 53	
H. R. Barker Mfg Co.	46 00	
Burnham & Davis Lumber Co.....	14 62	
Dumas & Co.	14 50	
Lowell Electric Light Corp ..	56 96	
Steedebaker Bros. Co.	345 00	
		<hr/>
		15,872 13
		<hr/>

LIGHTING

Appropriation	98,992 84	
		<u>98,992 84</u>

Expended

For Lighting Streets:

Lowell Electric Light Corp.....	67,476 27	
Lowell Gas Light Co.....	31,312 22	
		<u>98,788 49</u>

For Lighting Public Buildings:

Lowell Gas Light Co.....	19 35	
		<u>19 35</u>

For Corp St. Lights:

Lowell Gas Light Co.....	125 51	
		<u>125 51</u>

For Sundries:

Baker Printing Co.....	12 00	
O. P. Davis	6 00	
Gaffney & Kerwin ...	2 17	
Lowell Gas Light Co	25 52	
G. C. Prince & Son	11 30	
Union Printing Co.....	2 50	
		<u>59 49</u>
		<u>98,992 84</u>

PAVING MERRIMACK, BRIDGE STREETS, ETC.

Balance January 1, 1910	2,649 63	
		<u>2,649 63</u>

Expended

For Labor:

To Sundry Persons	455 91	
		<u>455 91</u>

Paving Merrimack, Bridge Streets, etc.—Continued

For Stone, Cement, etc.:

H. E. Fletcher Co.	382 54	
Hassam Paving Co.	35 11	
T. Larkin	2 20	
D. T. Sullivan	77 31	
		<hr/>
		497 16

For Sundries:

App. Engineering	8 21	
App. Streets, O. E.	289 12	
App. Water Works	3 20	
		<hr/>
		300 53

Returned to General Treasury Fund

1,253 60
 1,396 03

 2,649 63

STATE HIGHWAY TAX

Appropriation	115 00	
		<hr/>
		115 00

Expended

To Commonwealth of Massachusetts	115 00	
		<hr/>
		115 00

PAVING MERRIMACK, PRESCOTT STREETS, ETC.

Appropriation	68,001 00	
		<hr/>
		68,001 00

Paving Merrimack, Prescott Streets, etc.—Continued

Expended

For Labor:

To Sundry Persons.....	19,367 57	
		19,367 57

For Advertising:

Courier-Citizen Co.	18 00	
L'Etoile	7 20	
Lowell Sun.....	18 00	
Lowell Telegram.....	12 60	
		55 80

For Stone, Cement, etc.:

J. L. Douglass Co.	97 43	
H. E. Fletcher Co.....	215 97	
Hassam Paving Co.	1,547 98	
T. Larkin	121 40	
F. A. Malorey	17,574 20	
Mass. Broken Stone Co.....	301 76	
Sherman Moore Co.....	155 80	
E. A. & A. T. Smith	2,230 87	
Staples Bros. Co.....	40 93	
D. T. Sullivan....	4,158 51	
Winchester Rock & Brick Co.	223 66	
		26,668 51

For Sundries:

App. Engineering	1,127 53	
App. Streets, Wages.....	49 02	
App. Streets, O. E.	12,386 37	
App. Sewer Maintenance, Wages	171 52	
App. Sewer Maintenance, O. E.	697 37	
App. Watering Streets, Wages.....	96 00	
App. Watering Streets, O. E.....	144 00	
App. Water Works	168 52	

Paving Merrimack, Prescott Streets, etc.—Continued

For Sundries—Continued

Boston & Maine R. R.....	1,804 04	
Cheney & Thomson Co.....	10	
C. B. Coburn Co.....	10 00	
		<hr/>
		16,654 52
		62,746 40
Returned to General Treasury Fund.		5,254 60
		<hr/>
		68,001 00
		<hr/>

MACADAMIZING STREETS

Appropriation	25,600 00	
	<hr/>	
		25,600 00
		<hr/>

Expended

For Labor:

To Sundry Persons	8,489 52	
	<hr/>	
		8,489 52

For Advertising :

Courier-Citizen Co.....	14 40	
L'Etoile.....	7 20	
Lowell Sun.....	14 40	
Lowell Telegram.....	11 40	
	<hr/>	
		47 40

For Stone, Cement, etc. :

Mass. Broken Stone Co.....	814 39	
Winchester Rock & Brick Co.....	894 61	
	<hr/>	
		1,709 00

Macadamizing Streets—Continued**For Sundries :**

App. Engineering	208 62
App. Sewer Maintenance.....	801 87
App. Street, O. E.....	11,991 84
Boston & Maine R. R.	1,262 68

14,265 01

24,510 93

Returned to General Treasury Fund.

1,089 07

25,600 00

CONGRESS AND BILLERICA STREET BRIDGE

Appropriation	10,001 75
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10,001 75

Expended**For Labor :**

To Sundry Persons	1,849 22
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1,849 22
For Sundries :

App. Engineering	129 21
App. Streets, Wages	4 40
App. Streets, O. E.....	6 60
App. Sewer Maintenance.....	7 13
Boston & Maine R. R.....	70 29
Burnham & Davis Lumber Co.....	274 84
Edward Cawley	11 92
Courier-Citizen Co.....	13 50
M. S. Feindel.....	25 00
Lowell Sun.....	13 50
Mass. Broken Stone Co.	102 57
S. E. Thompson.....	31 94
E. A. Wilson & Co.....	217 41

908 31

2,757 53

Balance January 1, 1911

7,244 22

10,001 75

WIDENING LAWRENCE STREET

Appropriation	20,406 75	
	<u>20,406 75</u>	

Expended

For Labor :

To Sundry Persons	5,742 85	
	<u>5,742 85</u>	

For Sundries:

App. Engineering	203 41	
App. Sewer Maintenance	36 24	
App. Water Works	295 50	
Boston & Maine R. R.	38 25	
Burnham & Davis Lumber Co.	832 69	
Edward Cawley	175 45	
Courier-Citizen Co.	13 50	
C. H. Hanson Co.	82 50	
Lowell Sun	13 50	
Middlesex Machine Co.	21 56	
Joseph Mullin	35 00	
N. E. Electric Supply Corp.	8 45	
H. W. & E. G. Smith	639 75	
D. T. Sullivan	78 27	
S. E. Thompson	36 82	
Thompson Hardware Co.	3 60	
W. H. Ward & Co.	245 61	
	<u>2,760 10</u>	

	8,502 95	
Balance to 1911	11,903 80	
	<u>20,406 75</u>	

SHAW STREET EXTENSION

Appropriation ..	989 84	
	<u>989 84</u>	

Shaw Street Extension—Continued

Balance to 1911.....	989 84	
	<u> </u>	989 84
		<u> </u>

CHURCH STREET STORM GUARDS

Appropriation	800 00	
	<u> </u>	800 00
		<u> </u>

Expended

For Labor:

To Sundry Persons	192 97	
	<u> </u>	192 97
Return to General Treasury Fund.....		607 03
		<u> </u>
		800 00
		<u> </u>

5—CHARITIES

Charity Department, O. D. R. ; Charity Department, Hospital ; Hospital Repairs.

CHARITY DEPARTMENT**Out Door Relief**

Appropriation	29,221 02	
	<hr/>	29,221 02

Expended

For Salaries :

S. S. Mayberry, Superintendent.....	413 96	
M. F. Conley, Superintendent	1,586 04	
	<hr/>	2,000 00

For Clerk Hire and Wages :

To Sundry Persons	4,760 83	
	<hr/>	4,760 83

For Cash Allowances :

To Sundry Persons	1,963 74	
	<hr/>	1,963 74

For Office Supplies and Transportation :

American Express Co.	1 20
Baker Printing Co.....	14 00
Boston & Maine R. R.....	5 02
Boston & Northern St. Ry.....	10 00
Butterfield Printing Co.....	16 00
Carter's Ink Co.....	75

Charity Department—Continued

For Office Supplies and Transportation—Continued

M. F. Conley	54 15
Dumas & Co.....	10 75
W. H. Gallagher.....	1 75
H. C. Kittredge	10 75
Manchester & Concord Express Co.....	15
T. F. McCarthy	60 50
C. K. Miller	135 88
G. C. Prince & Son	31 36
Sampson & Murdock Co.....	9 00
Tobin's Printery.....	5 75

 367 01

For Physicians:

D. S. Belleheumer	200 00
P. Brunelle	222 00
A. E. Gillard	224 00
T. J. Halloran	200 00
A. J. Halpin.....	207 00
J. E. Learey.....	217 00

 1,270 00

For Dispensary Supplies:

F. E. Bailey & Co.....	82 45
Baker Printing Co	13 00
F. M. Bill & Co.....	37 87
Clinton Mfg. Co	42 00
C. B. Coburn Co	7 61
P. Dempsey & Co.....	119 55
Falls & Burkinshaw	320 45
J. B. A. Johnson.....	133 25
Fred O. Lewis.....	119 08
E. A. McQvade	393 28
J. H. O'Neil	170 80
H. C. Page	49 17
F. H. Pearson Co	4 50
Talbot Dyewood & Chemical Co.....	1 35
F. H. Thomas & Co.....	1 50
H. L. Timmons & Co.....	38 15
Geo. A. Wilson & Co.....	71 43

 1,678 16

Charity Department—Continued

Commonwealth :

Commonwealth of Massachusetts.....	772 89
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772 89

For Interments :

Joseph Albert	61 00
A. Archambeault	35 00
N. Belodeau.....	8 00
Peter Davey	2 00
G. M. Eastman & Co.....	6 00
John A. Finnegan & Co.....	2 00
G. W. Healey	11 00
Higgins Bros.....	5 00
Jas. H. McDermott	3 00
Thos. McDermott.....	5 00
M. H. McDonough	11 00
Jas. W. McKenna	2 00
Chas. H. Molloy	52 00
J. J. O'Connell.....	15 00
J. F. O'Donnell & Sons	28 00
W. H. Saunders.....	6 00
P. H. Savage	15 00
John A. Weinbeck.....	12 00
C. M. Young & Co.....	6 00

285 00

For Support of Almshouse :

Cities and Towns :

City of Beverley.....	61 05
Boston	663 40
Cambridge	85
Fall River.....	48 40
Fitchburg	17 80
Haverhill	90 95
Holyoke.....	399 92
Lawrence	479 73
Melrose	53 21
New Bedford	13 50
Northampton	43 00
Salem.....	231 40
Springfield	178 20
Worcester.....	345 19
Town of Billerica	56 50

Charity Department—Continued**For Support of Almshouse—Continued**

Chelmsford	42 94
Clinton	42 50
Natick	24 50
Sturbridge.....	112 00
Sutton	49 86
Westford	60
Weymouth	267 55

 3,223 05
For Hospitals and Institutions :

Children's Hospital.....	30 00
Children's Home	19 50
French American Orphanage.....	781 20
Hospital Cottages for Children	338 90
House of The Angel Guardian, Boston.....	672 00
Lawrence Orphan Asylum.....	202 68
Lowell Hospital Association.....	147 71
Mass. Hospital School Canton.....	510 00
N. E. Home for Little Wanderers	67 50
Perkins Institute and Mass. School for Blind.	12 86
St. John's Hospital.....	2,057 52
St. Peter's Orphan Asylum	913 50

 5,754 22
For Fuel—Wood Yard :

John Brady.....	321 79
A. A. Brown.....	274 78
Edward Cawley	1,817 92
George Lynch	12 00
Wm. B. Manning	154 37
C. L. Smith	223 47

 2,804 33
For Sundries—Wood Yard :

J. C. Bennett	1 00
C. B. Coburn Co.....	31
P. J. Custy & Co.....	8 50
Donovan Harness Co.....	19 50
G. M. Foster	28 02
Lowell Coach Co.....	1 00

Charity Department—Continued**For Sundries—Wood Yard—Continued**

Lowell Electric Light Corp.....	51 60
Lowell Gas Light Co.....	45
W. R. McKillop	4 25
Joseph Mullin	43 67
Henry Reynolds.....	26 00

184 30

For Ambulance—Service and Surgeons:

J. H. Donovan, Surgeon	216 66
A. E. Shaw, Surgeon	327 76
J. H. Sparks, Service	2,517 10

3,061 52

For Ambulance—Sundries:

Cook, Taylor & Co.	6 99
Donovan Harness Co.....	1 25
R. J. Lang & Co.....	1 10
N. E. Tel. & Tel. Co.....	20 79
A. G. Pollard Co	8 63
Salois & Leith.....	179 85
Sawyer Carriage Co.....	41 65

260 26

For General—Sundries:

App. Water Works.....	10 80
App. Public Buildings, O. E.....	527 92
J. C. Bennett	2 70
C. B. Coburn & Co.....	32 95
L. A. Derby & Co.....	1 60
Harriott Co.....	2 50
J. F. Kelty	10 70
Lowell Electric Light Corp	25 86
Lowell Gas Light Co.....	2 97
Lull & Hartford	2 50
S. S. Mayberry	5 00
W. R. McKillop	9 50
Merrimack Clothing Co	4 95
G. E. Mongeau.....	4 50
Jos Mullin	12 94
D. Murphy	30 00
N. E. Tel. & Tel. Co.....	15 40
O'Sullivan Bros. Co.....	75

Charity Department—Continued**For General Sundries—Continued**

E. B. Pierce & Son	24 00	
A. G. Pollard & Co.	30 12	
Putnam & Son.....	13 00	
Henry Reynolds	5 50	
Salois & Leith	51 60	
Sawyer Carriage Co	2 55	
J. H. Sparks.....	5 40	
		<hr/>
		835 71
		<hr/>
		29,221 02
		<hr/>

Lowell City Hospital and Almshouse

Appropriation	53,412 48	
	<hr/>	
		53,412 48
		<hr/>

Expended**For Wages :**

To Sundry Persons	11,281 65	
	<hr/>	
		11,281 65

For City Physician :

F. H. Smith	700 00	
	<hr/>	
		700 00

For Grain, Groceries and Provisions :

Armour & Co.....	223 05
Audette Bros.....	3 00
J. M. Bailey.....	1 25
Irving Barlow	9 45
F. S. Bean & Co	1,989 83
F. M. Bill & Co.....	3,768 44
Walter Booth.....	148 20
Boston Fish Market.....	28 00
G. J. & D. Bradt.....	104 00
James H. Buckley & Co.....	506 25
W. J. Burbeck.....	62 23
Calderwood & Robbins.....	156 00
Calnan & Guthrie.....	204 82
F. Carolan	2 40

Charity Department—Continued**For Grain, Groceries and Provisions—Continued**

Catarack City Milling Co.	1,079 23
J. B. V. Coburn.	189 60
Coffey Bros.	121 50
Elmer E. Cole.	96 90
J. B. Cover & Co.	89 28
Cudahy Packing Co.	97 61
Dickson's Tea Store	160 55
D. J. Donovan.	44 55
Thomas R. Fahey	2,093 25
Fleischmann Co.	141 96
Flynn's Market	72 00
Geo. M. Foster	158 96
Friend Bros	21 44
C. F. Garland	628 25
David Gerow	26 13
Crand Union Tea Co.	140 00
Henry Bros.	1 35
W. J. Hoare	189 27
A. C. Hoyt.	24 10
Independent B. & P. Co.	161 77
Chas. T. Killpatrick	1 10
Livingston Grain Co	39 00
A. L. Macrae.	670 67
Mansfield, Witham & Co.	241 25
E. E. McCauslin.	180 94
T. J. McDonald	333 60
Miley Soap Co.	32 50
Joseph Mullin	130 00
F. D. Munn & Son.	3 65
National Biscuit Co.	46 12
Nichols & Co.	51 61
H. E. Noyes & Son.	269 41
Omaha Packing Co.	535 89
Outlet Fruit Co.	7 50
Pawtucketville Cash Grocery.	1,408 75
G. E. Putnam & Son.	332 88
G. W. Randall.	260 00
John F. Saunders	1,080 00
Samuel Scott.	320 75
Simpson & Rowland	162 04
C. L. Smith	675 26
Sylvanus Smith & Co.	38 50
Swift & Bailey.	5,091 49
Tarpeh Tea Importation Co.	36 75
Turner Centre Creamery	320

Charity Department—Continued**For Grain, Groceries and Provisions—Continued**

Vermont Mfg Co.	144 00
Wilder & Wotton.....	413 28
C. W. Wing.....	125 60

 25,385 79
For Painters' and Electricians' Supplies:

Adams H. & P. Co.	87 91
F. G. Baldwin	38 16
Caucos Mfg Co	27 75
C. B. Coburn Co.....	202 12
L. A. Derby & Co.....	1 25
N. E. Electric & Supply Corp.	2 91
E. E. Smith Co.....	26 40
Tucke & Parker Co.....	5 04

 391 54
For Water, Lighting and Telephone:

App. Water Works	1,072 68
Lowell Electric Light Corp.....	498 43
Lowell Gas Light Co.....	1,001 41
N. E. Tel. & Tel. Co	24 50
W. U. Tel. Co.....	1 14

 2,598 16
For Hardware, Fittings, etc.:

Adams H. & P. Co.....	24 11
Automatic I. B. Co.	37 50
F. G. Baldwin.....	40 80
H. R. Barker Mfg Co.	64 02
Bartlett & Dow.....	112 80
J. C. Bennett.....	44 51
Boutwell Bros.....	21 27
Buffalo Specialty Co.....	16 20
Caucos Mfg Co.....	6 88
Cheney & Thomson Co.....	63 40
C. B. Coburn Co.....	155 88
L. A. Derby & Co.....	15 30
C. E. Gee.....	2 00
H. C. Girard & Co... ..	13 70
C. E. Guthrie & Son.....	80
A. L. Kittredge & Co	6 75

Charity Department—Continued

For Hardware, Fittings, etc —Continued

N. D. Lafleur.....	7 95
W. A. Mack Co.....	28 10
Middlesex Machine Co.....	6 90
Richardson Mfg Co.....	2 25
E. E. Smith	1 00
Thompson Hardware Co.....	40 08
J S. Turner Mfg Co.....	16 44
Welch Bros.....	2 25
W. E. Westall.....	5 60
H. H. Wilder & Co.....	2 10

738 59

For Drugs, Medicines, etc.:

F. & E. Bailey & Co.....	14 65
F. J. Campbell.....	13 80
C. B. Coburn Co.....	77 56
Columbian Insecticide Co.....	282 20
A. W. Dows & Co.....	3 74
E. Mer'k Drug Co.....	7 00
Frye & Crawford	64 50
Jaynes Drug Co.....	30 00
J. B. A. Johnson.....	3 50
H. C. Page.....	12 78
Talbot Dyewood & Chemical Co.....	94 20
Tower's Corner Drug Store.....	1 20

605 13

For Clothing, etc :

Alpha Shoe Co	28 00
J. L. Chalifoux Co.....	366 63
Cook, Taylor & Co.	555 67
J A. Desrosiers	606 12
J. J. Doherty & Co.	65 57
Gilbride Co.....	9 22
M. F. Gookin Co.	2 25
J. R. Grant.	16 38
Kelley Bros.....	45 00
Mass. Reformatory.....	225 00
Mass. State Prison.....	772 50
Merrimack Clothing Co.....	62 47
Geo. E. Mongeau	20 60
John Mountford	42 00
Z. A. Normandin.....	60 85

Charity Department—Continued**For Clothing, etc —Continued**

O'Donnell Dry Goods Co	82 95	
F. H. Pearson Co.....	57 00	
A. G. Pollard Co	473 13	
O. F. Prentiss.....	4 45	
Putnam & Son	215 51	
Robertson Co.....	453 65	
Sunlight Shoe Store	13 45	
Talbot Clothing Co.....	109 50	
		<hr/>
		4,287 90

For Express, Transportation, etc. :

American Express Co.....	1 90	
Boston & Maine R. R.....	2 56	
New York, New Haven & Hartford R. R....	52 69	
J. H. Sparks.....	2 00	
		<hr/>
		59 15

For Carriages, Harnesses and Repairs :

Donovan Harness Co.....	92 75	
F. B. Hill & Co.....	92 70	
D. W. Parker	8 10	
J. H. Sparks.....	5 55	
J. H. Swett	4 74	
		<hr/>
		203 84

For Shoeing Horses :

M. J. Cahill	18 40	
C. Desmond.....	52 25	
J. J. Donnelly	46 00	
Geo. R. Morse.....	26 50	
Henry Reynolds.....	58 00	
J. H. Sparks.....	7 75	
		<hr/>
		208 90

Charity Department—Continued**For Fuel, etc.:**

Edward Cawley	3,992 60
Lowell Gas Light Co.....	28 50
Joseph Mullen.....	9 50
D. T. Sullivan	136 35
E. A. Wilson & Co.....	534 43

 4,701 38
For Stationery, Printing, etc.:

Buckland Printing Co.....	12 00
Carter's Ink Co.....	76
Courier-Citizen Co.....	3 00
R. C. Paradis	2 40
G. C. Prince & Son.....	25 61
Sampson & Murdock Co.....	3 00
Tobin's Printery.....	4 50

 51 27
For Sundries:

App. Health Yard, O. E....	519 38
Loretta Bacon.....	35 00
Bartlett & Dow	36 15
Boyle Bros.....	4 20
W. J. Burbeck.....	3 50
Burnham & Davis Lumber Co....	10 38
J. E. Carroll	150 00
J. J. Cluin Co.	4 00
Chas. Clapp & Co.....	273 00
C. B. Coburn Co.....	32 71
M. F. Conley	2 35
Chas. Daggett Box Co	20 30
Davis & Sargent Lumber Co.....	70 50
C. F. Devine	16 00
J. L. Douglas & Co.....	6 00
Sergius Fegan.....	16
F. J. Flemings.....	78 71
A. R. Gardner	20 00
C. E. Gee	1 00
H. L. Gonzales	1 00
C. A. Hamblett	46 00
C. F. Hatch Co....	2 43

Charity Department—Continued

Sundries—Continued

E. E. Hill	2 00
A. C. Hoyt	1 10
G. E. Hutchins	107 06
J. F. Kelley & Co.....	45 00
T. Kelley & Co.....	45 00
J. F. Kelty	2 95
A. L. Kittredge	34 20
Lowell Cadet Band	50 00
Lowell Hospital Association	1 85
J. H. Marsh	11 34
John H. Martin	1 00
Mathew Temperance Institute	36 00
Wm. Henry Maule.....	43 85
P. H. McCarthy	90 00
J. J. McManmon	4 60
Middlesex Lether Co.....	67 45
Miller & Co.....	15 00
Morse & Beales	4 00
Chas. E. Munn	16 00
National Thermometer Co.....	18 00
Nelson's Colonial Store	27 32
F. W. Park ...	32 00
Harry Parker	3 00
Thos. Powers	11 00
Amasa Pratt Co.....	69 49
Pratt & Forrest	6 75
C. S. Proctor	10 30
W. A. Sherman	2 00
Singer Sewing Machine Co	3 15
Charles D. Slattery	25 00
J. H. Sparks.....	1 50
Michael Sullivan.....	8 25
Town of Chelmsford	56 25
E. W. Trull	3 00
W. E. Westall.....	1 40
H. F. Whiting.....	65
Mitchell Wing & Co.....	5 60
Wm Zimmer	3 35

 2,199 18

 54,412 48

CITY HOSPITAL REPAIRS

Appropriation	3,000 00	
		<u>3,000 00</u>

Expended

For Wages :

To Sundry Persons	996 66	
		<u>996 66</u>

For Hardware, Plumbing, Fittings, etc. :

Adams Hardware and Paint Co.....	2 25	
H. R. Barker Mfg Co.	114 44	
J. D. Danany	16 95	
Scott & O'Day Co.....	1,381 54	
E. T. Shaw Co.....	16 24	
Tucke & Parker Co....	107 71	
		<u>1,639 13</u>

For Lumber :

Burnham & Davis Lumber Co.....	162 21	
Davis & Sargent Lumber Co.....	88 00	
		<u>250 21</u>

For Mason-work and Supplies :

Philip Ginty.....	22 35	
Wilfred Lorrain	38 10	
Samuel E. Snow.....	21 52	
E. A. Wilson & Co.....	32 00	
		<u>113 97</u>

Returned to General Treasury Fund.....

2,999 97
<u>03</u>
<u>3,000 00</u>

6—SOLDIERS' BENEFITS

Office, W. and O. E.; State Aid; Military Aid; Soldiers' Relief.

STATE AID OFFICE

Appropriation	2,222 26	
		2,222 26

Expended

For Salaries :

Geo. E. Worthen, Superintendent	1,200 00	
Mary F. O'Brien, Asst. Superintendent	670 57	
		1,870 57

For Office Supplies :

Baker Printing Co.	8 25	
Poston & Northern St. Ry.	20 25	
Carter's Ink Co.	4 50	
Manchester & Concord Express Co.	15	
C. K. Miller	20 25	
N. E. Tel. & Tel. Co.	20	
Mary F. O'Brien	260 59	
John F. Powers	2 00	
G. C. Prince & Son	23 95	
Sampson & Murdock Co.	3 00	
Smith Typewriter Inspection Co.	3 25	
Union Printing Co.	5 30	
		351 69

2,222 26

STATE AID

Appropriation	17,777 00	
		17,777 00

Expended

To Sundry Persons	17,777 00	
		17,777 00

MILITARY AID

Appropriation	3,000 00	
		3,000 00

Expended

To Sundry Persons	2,946 00	
		2,946 00
Returned to General Treasury Fund.		54 00
		3,000 00

SOLDIERS' RELIEF

Appropriation	17,970 22	
		17,970 22

Soldiers' Relief—Continued

Expended

To Sundry Persons	13,988 00	
		13,988 00
For Provisions, Fuel, etc.:		
F. & E. Bailey & Co.....	7 34	
J. Brady.....	5 00	
J. T. Brennan	35 00	
J. S. Brooks.....	48 00	
A. A. Brown.....	75 50	
W. H. Brown.....	2 00	
J. H. Burke.....	44 00	
H. E. Caron ..	8 00	
Carter & Sherburne Co.....	50	
Edward Cawley	371 77	
P. Coleman	6 00	
P. H. Daley	16 15	
C. F. Devno.....	127 00	
D. J. Donovan.....	19 00	
A. W. Dows & Co.....	85	
Family Supply Co.....	176 00	
Harry Gray	1 00	
John St. Public Market.....	72 00	
A. J. Keith.....	60 00	
J. M. Kingsbury	72 00	
R. J. Lang & Co.....	287 85	
Fred Lewis.....	10 75	
Lowell Gas Light Co	40 46	
Geo. Lynch.....	32 00	
J. J. Maguire	48 00	
T. Mahoney.....	2 50	
J. C. McCarron.....	52 00	
Ellen McCauley	51 43	
J. J. McCausland & Co.....	72 00	
F. E. McNabb	3 90	
Merrimack Clothing Co.....	1 50	
A. E. Morse.....	3 00	
J. H. Murray	7 00	
Rostler Bros.....	20 00	
Russell & Boynton.....	112 00	
J. F. Saunders.....	73 00	
M. E. Sheehy	4 00	
John Smith.....	24 00	

Soldiers' Relief—Continued**For Provisions, Fuel, etc.—Continued**

F. R. Strout.....	78 00
H. L. Timmons & Co.	4 90
Union Market.....	88 00
S. W. Wiggin... ..	21 00

 2,184 40
For Interments :

J. B. Currier.....	105 00
Darcy & Quirck	35 00
Peter Davey.....	35 00
G. M. Eastman & Co.....	70 00
G. W. Healey	210 00
Chas. H. Molloy	70 00
J. F. O'Donnell & Sons	175 00
W. H. Saunders.....	35 00
Saunders Establishment.....	35 00
P. H. Savage	105 00
M. P. Ward	35 00
John A. Weinbeck.....	35 00
C. M. Young	140 00

 1,085 00
For Physicians:

S. Bartlett.....	16 00
J. F. Boyle	39 00
W. G. Eaton	4 50
S. J. Johnson....	1 00
W. A. Johnson	50 00
W. P. Lawler.....	3 00
J. E. Leary	228 00
J. P. McAdams.....	14 00
P. J. Meehan	19 00
A. G. Scoboria	18 50

 393-00

Soldiers' Relief—Continued

For Sundries:

App. Charity O. D. R.....	101 85
Boston & Maine R. R.....	18 93
Lowell Hospital Association.....	73 00
C. K. Miller	23 14
St. John's Hospital.....	31 00
J. H. Sparks.....	9 90
Geo E. Worthen	62 00

319 82

17,970 22

7—SCHOOLS

School Houses, W.; School Houses, O. E.; Plastering and Lathing; Kalsomining; Greenhalge School; New Highland School; Repairing School Grounds; Lowell Textile School; School House Repairs; School Desk Repairs; Work on Boilers.

SCHOOL DEPARTMENT

Appropriation..... 380,721 08

380,721 08

Expended

For Salaries and Wages :

A. K. Whitcomb, Superintendent	3,000 00
Truant Officers and Clerk Hire.....	5,544 25
Day Teachers	257,629 02
Evening Teachers	15,907 00
Janitors—Day	44,830 69
Janitors—Evening	2,892 00

329,803 96

For Books :

American Book Co.....	565 23
D. Appleton Co.....	44 60
Atkinson Mentier & Grover	10 91
E. E. Babb & Co.....	2,901 20
Milton Bradley Co.....	72 00
Oliver Ditson Co.....	11 70
Exeter Book Publishing Co.....	1 50
Ginn & Co.....	1,411 17
Gregg Publishing Co.....	185 74
Harvard University	1 20
Hazlett & Walker	1 00
D. C. Heath & Co.....	525 51

School Department—Continued

For Books—Continued

Henry Holt & Co.....	49 41
Houghton Mifflin Co.....	8 00
Little Brown & Co.....	2 70
A. C. McCleug Co.....	56 25
Chas. E. Merrill	51 50
N. E. Publishing Co.....	10 00
Playground Association of America.....	50
B. H. Sanborn & Co.....	321 60
Schoenhof Book Co.....	22 00
Chas. Scribners Sons.....	253 31
Silver, Burdett & Co.....	108 95

6,615 98

For Stationery, Printing, etc.:

Buckland Printing Co.....	140 00
Butterfield Printing Co.....	323 50
Carter's Ink Co.....	75
Courier-Citizen Co.....	225 35
Craftsman Press.....	13 25
A. B. Dick Co	3 50
Dumas & Co.....	191 45
Fox Typewriter Co.....	433 05
Chas. E. Galley	75
C. F. Hatch Co....	10 19
H. C. Kittredge	6 85
Osmond Long.....	172 50
Lowell Sun	14 10
Lowell Telegram.....	9 30
T. F. McCarthy	101 65
Monarch Typewriter Co.....	390 00
G. C. Prince & Son.....	5,641 37
C. S. Proctor	56 70
Sampson & Murdock Co.....	9 00
Smith Premier Typewriter Co	388 50
Tobin's Printery.....	69 25
Union Printing Co.....	208 35
M. G. Wight Co.....	9 14

8,418 50

School Department—Continued**For Carriages, Harnesses and Repairs :**

Donovan Harness Co.....	2 75	
F. B. Hill & Co.....	53 44	
Sawyer Carriage Co.....	105 84	
J. H. Sparks.....	64 70	
		<hr/>
		226 73

For Water and Lighting :

App. Water Works	1,367 17	
Lowell Electric Light Corp.....	3,062 99	
Lowell Gas Light Co.....	1,236 04	
		<hr/>
		5,666 20

For Fuel, etc. :

John Brady	181 25	
J. T. Brennan	64 00	
Edward Cawley	14,938 76	
W. T. Griffin	257 75	
Horne Coal Co.....	14 00	
A. A. Jones	24 50	
Geo. Lynch	208 00	
Joseph Mullen.....	17 00	
John P. Quinn.....	32 00	
R. J. Smith & Sons	64 50	
E. A. Wilson & Co.....	1,374 22	
		<hr/>
		17,175 98

Board of Horses and Shoeing :

J. J. Donnelly	58 50	
J. H. Sparks.....	600 10	
		<hr/>
		658 60

For Electrical Supplies :

Clapp Eastman Co.....	6 75	
A. W. S. Davis	31 76	
L. A. Derby & Co.....	3 30	

School Department—Continued

For Electrical Supplies—Continued

Electric Importing Co.....	4 21	
M. E. Hobson	70 75	
N. E. Electric Supply Corp.....	53 36	
Tucke & Parker Co.....	138 19	
		308 32

For Laboratory Supplies :

Bausch & Lomb Optical Co	40 72	
Clinton Mfg. Co.....	47 00	
A. D. Little, Inc.....	10 00	
Knott Apparatus Co.....	3 60	
Standard Chemical Co ..	42 48	
Talbot Dyewood & Chemical Co....	16 08	
F. H. Thomas & Co.....	9 00	
		169 88

For Express, Transportation, etc. :

Adams Express Co	10 54	
American Express Co.....	24 67	
Boston & Lowell Express Co....	5 10	
Boston & Maine R. R.....	1 42	
Boston & Northern St. Ry.....	300 00	
F. B. Hill & Co.....	3 73	
Hill Transfer Co.....	39 58	
Edward Judge.....	18 00	
Manchester & Concord Express Co.....	17 85	
C. K. Miller	40 50	
New York, New Haven & Hartford R. R	6 87	
J. H. Sparks.....	4 00	
		472 26

For Furniture Repairs, Cloth, etc. :

Adams & Co.....	123 85	
F. G. Baldwin	133 25	
Bon Marche	8 81	
Cook, Taylor & Co.	77 50	
Gardner Bros.....	8 00	
M. F. Gookin Co.....	54 50	

School Department—Continued**For Furniture Repairs, Cloth, etc.—Continued**

J. R. Grant	20 45
H. E. Harris	18 00
P. Z. Herbert	18 00
D. D. Howard Co.....	122 82
Mass. Com. for the Blind.....	37 90
O'Donnell Dry Goods Co.....	34 75
A. G. Pollard Co.....	177 51
James Stanley	49 10
W. E. Westall	164 70

1,049 14
For Music and Musical Supplies :

E. A. Borges	40 00
Irvin A. Foote.....	150 00
Peter Gallagher	6 50
Louis Grunewald, Jr.....	30 00
Joseph H. Hibbard	80 00
A. S. Johnson	1 50
Lowell Military Band	75 00
W. A. Owen.....	17 00
M. Steinert & Son	16 00

416 00
For Paints, Oils, etc :

F. G. Baldwin.....	11 90
Caucos Mfg Co.....	6 00
Cheney & Thomson Co.....	14 59
C. B. Coburn Co.....	75 39
Columbia Refining Co.....	56 52
H. C. Doughty.....	3 75
H C. Girard & Co.....	85
Masury Young Co.....	26 00
Talbot Dyewood & Chemical Co.....	18 85

213 85

School Department—Continued

For Hardware, etc.:

Adams Hardware & Paint Co.....	2 10
F. G. Baldwin	24 15
H. R. Barker Mfg Co.	25
W. T. S. Bartlett	53 00
Bartlett & Dow.....	3 50
J. C. Bennett.....	65 25
Boutwell Bros.....	40 62
Cheney & Thomson Co.	609 17
City Iron Foundry.....	1 16
C. B. Coburn Co.....	302 94
Geo. W. Fifield.....	23 00
H. C. Girard Co.	215 80
C. E. Guthrie & Son.....	23 40
C. F. Horsington & Son.	37 50
N. D. Lafleur.....	23 63
Lull & Hartford	7 50
W. A. Mack Co.....	2 00
Mossberg Wrench Co.....	61 67
Pevey Foundry Co.....	2 47
A. L. Ready & Son.....	3 40
Tate Mfg Co	10 42
Thompson Hardware Co.....	53 74
W. E. Westall.....	19 20
J. C. Wood	5 08
Wm. Zimmer.	134 45

 1 725 40

For Sundries:

Armour & Co	25 50
F. G. Baldwin	47 10
A. K. Barrows.....	30 00
E. J. Bill	5 50
F. M. Bill & Co.	50 37
F. W. Bird & Son	10 30
H. S. Brainard.....	15 50
W. P. Brazer.....	3 48
Lee Baron R. Briggs.....	75 00
Burnham & Davis Lumber Co.....	26 93
Edward Bushnell	10 00
P. P. Caproni & Bro.	4 00
W. W. Carey Co.....	75
Chandler & Farquhar Co.....	282 24
J. J. Cluin	101 00

School Department—Continued**For Sundries—Continued**

Clinton Mfg Co.....	39 55
C. B. Coburn & Co.....	118 56
Cross Awning & Sign Co.....	5 50
O. M. Donohoe.....	15 00
T. H. Elliott.....	50 00
F. J. Flemings.....	2 15
Joseph Flynn	3 00
J. G. Grant.....	48 25
J. J. Gray	25 00
J. S. Hammett & Co.....	8 28
Thomas Hannafin	5 00
U. & R. Harding Co.....	11 00
C. F. Hatch Co.....	14 00
E. F. Hathaway	50
G. E. Hutchins	32 20
S. Kershaw & Son.....	11 00
Klean-off Dust Mfg Co.	5 13
Knox & Morse Co.....	12 50
Alice Leahey	33 60
A. R. Loprez & Bro.	20 84
D. Lovejoy & Son	2 20
Lull & Hartford	17 50
J. E. Lyle	18 00
A. D. Mack	70 70
P. A. Mackenzie.....	8 90
H. S. Mansur.....	19 25
McGauvran Bros.	9 00
McNabb Bros.....	35 57
Mdsx. County Truant School.....	3,610 12
N. E. Tel. & Tel. Co.....	68 26
No. Dust Mfg Co.	12 50
Orient Mfg Co.....	20 75
Paradox Gas Engine Co	2 50
David Perreault	5 12
Amasa Pratt Co.....	52 93
Pratt & Forrest	81
C. R. Preston.....	5 50
Ranlett Grocery Co.....	1 11
Robbins Disinfectant Co	95 75
T. G. Robbins ..	7 55
Lilla E. Roche.....	17 25
R. C. L. Matting Co.....	9 00
E. W. A. Kowles	4 57
James A. Shanley.....	67 00
A. S. Thompson	115 00
H. L. Timmons & Co.	3 30

School Department—Continued**For Sundries—Continued**

J. S. Turner Mfg Co	20
J. J. Walsh	20 00
R. A. Ward	100 00
Redmond Welch	5 50
W. E. Westall	8 98
A. C. Wheelock	216 00
A. K. Whitcomb	6 88
H. F. Whiting	16 00
A. J. Wilkinson & Co.	3 65
Williamstown Glass Co.	1 50
Wm Zimmer	6 50
App. School Houses	1,034 78
App. Buildings	421 06

 7,269 92
Evening Schools**For Sundries:**

Adams Hardware & Paint Co.	277 50
American Book Co.	16 00
E. E. Babb & Co.	24 00
J. C. Bennett	1 25
Azmio Beshgeturian	13 50
Buckland Printing Co.	5 00
P. P. Caproni & Bro.	60 57
C. B. Coburn Co.	12 74
Dumas & Co.	10 75
Ginn & Co.	26 00
Gregg Publishing Co.	90
Geo. E. Hutchins	1 00
Lowell Electric Light Corp.	1 80
George Lynch	9 00
G. C. Prince & Son	64 35
J. H. Sparks	6 00

 530 36

 380,721 08

SCHOOL HOUSES**Wages**

Appropriation	10,903 53	
		10,903 53

Expended

To Sundry Persons	10,851 58	
		10,851 58
Return to General Treasury Fund.....		51 95
		10,903 53

Other Expenses

Appropriation	11,234 75	
		11,234 75

Expended

For Mason Work, Roofing, Plastering, etc.:

Cyrus Barton....	18 20
E. Bibeault	513 87
Jas. Burns & Son	46 25
Edward Cawley.....	27 48
P. Cogger.....	2 00
Mathias F. Connor.....	6 70
B. F. Crosby & Co.....	16 69
C. F. George & Co	63 10
Philip Ginty ..	397 43
Wilfred Lorrain	35 05
Jas. F. Mooney.....	14 60
E. A. & A. T. Smith	296 26
Samuel E. Snow	89 34
Staples Bros	2 50

School Houses—Continued**For Mason Work, Roofing, Plastering, etc.—Continued**

D. T. Sullivan.....	23 80
Jas. Walsh & Son	117 95
E. A. Wilson & Co.....	114 52
	<hr/>
	1,785 74

For Paints, Oils, etc.:

Adams Hardware & Paint Co.....	451 55
F. G. Baldwin	310 20
W. T. S. Bartlett.....	22 48
Sylvester Bean	10 00
J. C. Bennett	189 98
Cheney & Thomson Co.	160 50
M. D. Clay.....	36 92
C. B. Coburn Co.....	503 80
H. C. Girard Co.....	2 25
E. A. McQuade	70 00
E. E. Smith Co.....	3 24
	<hr/>
	1,760 92

For Plumbing, Pipe, Fittings, etc.

H. R. Barker Mfg Co.....	600 55
Carroll Bros.....	258 48
Challenge Tube Cleaner Co.....	1 10
John A. Cotter	139 61
Daniel Cushing & Co.....	52 87
Joseph Denes	1 00
E. F. Farrell.....	20 03
Farrell & Conaton	162 33
Jas. L. Gordon	191 46
J. Harvey & Co.....	69 54
W. C. Hinckley	98 97
C. F. Hoisington & Son	310 33
Lowell Furnace Co.....	326 17
W. A. Mack Co.....	339 18
Jos. C. McCarron & Co.....	35 49
J. F. McMahan & Co.....	148 50
Middlesex Machine Co.....	61 40
J. J. Mullaney	25 04
M. J. Mullaney.....	150 00

School Houses—Continued**For Plumbing, Pipe, Fittings, etc.—Continued**

Rice & Co.....	99 40
Scannell Boiler Works.....	630 07
Scott & O'Day Co.....	472 66
E. T. Shaw Co.	359 56
Spencer J. Steinmetz.....	20 25
J. S. Turner Mfg. Co	2 25
Welch Bros.....	16 60
H. H. Wilder & Co	545 14

 5,137 98
For Lumber :

Burnham & Davis Lumber Co.	197 09
Amasa Pratt Co.....	385 40
Pratt & Forrest	432 67
C. L. Smith	22 40

 1,037 56
For Hardware, etc. :

Adams Hardware and Paint Co.....	86 30
American Seating Co.....	2 38
F. G. Baldwin	94 70
W. T. S. Bartlett	49 96
Bartlett & Dow	12 54
J. C. Bennett	97 17
Boutwell Bros.....	86
Cheney & Thomson Co.....	181 62
C. B. Coburn Co.....	8 95
H. C. Girard Co.....	25 92
C. E. Guthrie & Son.....	5 70
C. F. Hoisington & Son	17 50
A. P. Knapp.....	75 00
Lowell Furnace Co.....	6 90
W. H. McElholm	50
E. E. Smith Co.....	70 50
Thompson Hardware Co.....	35 64
W. E. Westall	6 19

 778 33

School Houses—Continued**For Electrical Supplies:**

B. F. Sturtevant Co.....	18 18
Tucke & Parker Co....	18 19

 37 08
For Sundries:

App. Streets. O. E.....	61 83
R. R. Armitstead	75
Cyrus Barton	90 40
T. Casey	1 50
C. B. Coburn Co.....	247 74
F. B. Hill & Co ..	3 00
G. E. Hutchins	2 70
Jos. Loiselle.....	5 50
Pawtucketville Cash Grocery.....	3 50
A. G. Pollard Co.....	9 75
Simpson & Rowland.....	4 00
Talbot Dyewood & Chemical Co.....	3 00
Troy Bros. & Co.....	251 38
H. Twomey	2 50
W. E. Westall	1 14
E. A. Wilson & Co.....	8 45

 697 14

 11,234 75

Plastering and Lathing

Appropriation	300 00
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 300 00

Expended

B. F. Crosby & Co.....	289 69
Wilfred Lorrain	10 05

 299 74

Returned to General Treasury Fund

26

 300 00

Kalsoming

Appropriation	2,000 00	
		2,000 00

Expended

For Wages :

To Sundry Persons	723 82	
		723 82

For Sundries :

App. School Houses, O. E	42 96	
App. School Houses, Labor	278 94	
Adams Hardware & Paint Co.	25	
F. G. Baldwin	87 24	
M. D. Clay.....	12 25	
C. B. Coburn & Co.	46 68	
M. F. Connor.....	50 00	
Larson & Bentley.....	2 50	
Wilfred Lorrain	11 10	
Lowell Wall Paper Co	224 00	
W. A. Mack Co.....	1 50	
E. E. Smith Co.....	5 30	
Samuel E. Snow.....	476 00	
Thompson Hardware Co.....	35 70	
		1,274 42
		1,998 24
Returned to General Treasury Fund.		1 76
		2,000 00

GREENHALGE SCHOOL

Balance January 1, 1910	103 53	
		103 53

Greenhalge School—Continued**Expended**

Rice & Co.....	102 16	
	<hr/>	102 16
Returned to General Treasury Fund		1 37
		<hr/>
		103 53

NEW HIGHLAND SCHOOL

Balance January 1, 1910	2,178 87	
	<hr/>	2,178 87

Expended**For Wages :**

To Sundry Persons	660 13	
	<hr/>	660 13

For Arbitrators :

C. T. Kittredge.....	35 00	
G. H. Staples.....	25 00	
	<hr/>	60 00

For Lumber :

Burnham & Davis Lumber Co.....	158 12	
Davis & Sargent Lumber Co.....	35 00	
C. L. Smith	10 50	
	<hr/>	203 62

For Hardware :

Cheney & Thomson Co.	4 32	
H. C. Girard Co.....	5 60	
	<hr/>	9 92

New Highland School—Continued

For Retaining Walls :

J. A. & E. A. Simpson	600 00	
		600 00

For Concrete :

Jas. Walsh & Son	301 23	
		301 23

For Heating :

E. T. Shaw Co.	73 56	
		73 56

For Sundries :

E. Bibeault	187 50	
Cross Awning Co	10 00	
J. Loiselte	31 50	
H. W. Tarbell	15 00	
		244 00

2,152 46

26 41

2,178 87**REPAIRING SCHOOL GROUNDS**

Appropriation	500 00	
		500 00

Expended

For Wages :

To Sundry Persons	392 53	
		392 53

Repairing School Grounds—Continued

For Sundries:

J. B. Cover & Co.	2 80	
E. F. Hathaway.....	2 00	
New York, New Haven & Hartford R. R ...	1 07	
Robin Hill Nursery.....	55 00	
C. A. Whittet.....	2 10	
W. B. Whittier & Co.....	44 50	
		<hr/>
		107 47
		<hr/>
		500 00
		<hr/>

LOWELL TEXTILE SCHOOL

Appropriation	8,000 00	
	<hr/>	
		8,000 00
		<hr/>

Expended

Trustees Lowell Textile School.....	8,000	
	<hr/>	
		8,000 00
		<hr/>

SCHOOL HOUSE REPAIRS

Appropriation	3,300 00	
	<hr/>	
		3,300 00
		<hr/>

Expended

For Wages:

To Sundry Persons	749 39	
		749 39

School House Repairs—Continued**For Cement, Pipe, etc. :**

E. Bibeault.....	950 51	
Edward Cawley	54 12	
M. F. Connor ...	1,089 00	
		<u>2,093 63</u>

For Sundries :

E. Bibeault.....	74 22	
Burnham & Davis Lumber Co.	40 00	
H. C. Girard Co.....	2 50	
Jos. Loiselle.....	18 25	
W. A. Mack Co.....	285 45	
Scannell Boiler Works.....	36 56	
		<u>456 98</u>
		<u>3,300 00</u>

SCHOOL DESK REPAIRS

Appropriation	1,000 00	
		<u>1,000 00</u>

Expended**For Wages :**

To Sundry Persons	836 42	
		<u>836 42</u>

For Sundries :

American Seating Co.....	84 00	
F. G. Baldwin	47 25	
New York, New Haven & Hartford R. R....	1 08	
		<u>132 33</u>
		<u>968 75</u>
		<u>31 25</u>
		<u>1,000 00</u>

WORK ON BOILERS

Appropriation	1,500 00	
	<hr/>	1,500 00
		<hr/>

Expended

D. E. Leary	975 00	
Scannell Boiler Works	522 10	
	<hr/>	1,497 10
Returned to General Treasury Fund.		2 90
		<hr/>
		1,500 00
		<hr/>

8—LIBRARIES

Library and Reading Room:

LIBRARY

Appropriation	15,000 00	
		<u>15,000 00</u>

Expended

To Trustees of City Library	15,000 00	
		<u>15,000 00</u>

9—RECREATION

Park, S. & W.; Park, O. E.; North Common Walks; Fort Hill Ball Grounds; Playgrounds; Ann Street Grounds; Little Canada Park; Memorial Day, G. A. R.; Memorial Day, S. W. V.; Band Concerts; July Fourth; North Common Fountain; Playground Fountain; North Common Drainage; A. O. H. Reviewing Stand; Shedd Playground.

PARK DEPARTMENT

Salaries and Wages

Appropriation	10,037 65	
		<u>10,037 65</u>

Expended

To Sundry Persons	10,037 65	
		<u>10,037 65</u>

Other Expenses

Appropriation	4,141 00	
		<u>4,141 00</u>

Expended

For Shoeing, Carriages, Harnesses, Etc.:		
E. P. Bryant.....	250 25	
J. J. Donnelly	120 20	
Donovan Harness Co.....	158 70	
Salois & Leith.....	1 00	
		<u>528 15</u>

Park Department—Continued**For Water and Lighting :**

App. Water Works	8 93
Lowell Electric Light Corp.....	19 86

28 79

For Hay, Grain, etc. :

J. B. Cover & Co.....	1 40
G. M. Foster	563 04
J. E. Foster	163 22
Est. F. A Fox	60 48
Livingston Grain Co.....	51 87
T. J. McDonald	89 94

929 95

For Plants, Shrubs, Loam, etc. :

Bartlett & Dow	17 57
P. Conroy.....	11 81
H. A. Dyer	34 00
Elliott Nursery Co ..	36 32
F. D. Emerson	18 00
F. W. Jenness	88 87
Thos. Kelly	35 63
Lowell Co operation Association	68 19
J. J. McManmon	15 00
Morse & Peals.....	108 25
Harry Parker	32 66
Robin Hill Nursery	71 90
Whittet & Co.....	269 65
W. B. Whittier & Co.....	4 75
Geo B. Wright	20 00

832 60

For Hardware, etc. :

Adams Hardware and Paint Co.....	4 20
Ames Implement and Seed Co.....	37 50
H. R. Barker Mfg Co.....	6 62
Bartlett & Dow	240 01
Bennett Bros. Co.....	25 00
C. E. Gee	10 50

Park Department—Continued

For Hardware, etc.—Continued

H. C. Girard Co.....	48
G. E. Hutchins	45
W. A. Mack Co.....	2 50
C. N. Rice	95
Thompson Hardware Co.....	10 86
J. C. Wood	2 75
Wm. Zimmer.. ..	25
App. Water Works	31 00

 373 07

For Stationery, Printing, etc.:

American City Publishing Co	1 00
Courier-Citizen Co.....	5 00
Davis Printing Co.....	29 75
Dumas & Co.....	7 50
R. J. Haight.....	1 00
Lawler Printing Co.....	107 70
R. C. Paradis	75
G. C. Prince & Son.....	55 50
Sampson & Murdock Co.....	3 00
Union Printing Co.....	15 00

 226 20

For Express, Transportation, etc.:

American Express Co	80
E. H. Mercier	15 00
New York & Boston Despatch Express Co..	7 50
New York, New Haven & Hartford R. R	25
J. H. Sparks.....	12 50

 36 05

For Sundries:

App. Engineering	31 15
App. Auditor	60 00
Cyrus Barton	185 00
F. M. Bill & Co.....	1 20
J. Brady.....	5 00
W. P. Brazier.....	9 79

Park Department—Continued**For Sundries—Continued**

B. G. Brown.....	25 00	
Edward Cawley	20 73	
C. B. Coburn Co.....	28 23	
Davis & Sargent Lumber Co.....	38 82	
Donovan Harness Co.....	3 05	
C. E. Gee	15 54	
Gumb Bros.....	7 70	
C. H. Hanson Co.	27 00	
F. F. Hathaway	3 75	
Middlesex Registry of Deeds.....	1 05	
J. Mountford	5 00	
N. E. Tel. & Tel. Co.....	47 31	
N. G. Norcross	100 80	
Amasa Pratt Co.....	10 44	
Pratt & Forrest	18 99	
Props. Locks & Canals	10 00	
C. N. Rice	80	
Robertson Co.....	5 60	
Roy & O'Heir	8 50	
W. A. Sherman	7 00	
Edward Simpson	205 25	
E. A. & A. T. Smith	252 60	
Staples Bros.....	2 50	
Suffolk Engineering & Electric Co.....	37 80	
Talbot Dyewood & Chemical Co.....	8 00	
Jas. Whittet	2 54	
		1,186 19
		4,141 00

RAISING AND REPAIRING NO. COMMON WALKS

Appropriation	1,000 00	
		1,000 00

Expended

To E. A. & A. T. Smith.....	1,000 00	
		1,000 00

FORT HILL PARK BALL GROUNDS

Appropriation	1,000 00	
	<hr/>	1,000 00

Expended

For Labor:

To Sundry Persons	938 01	
	<hr/>	938 01

For Sundries:

Bartlett & Dow.....	4 15	
Boutwell Bros.....	20 84	
E. P. Bryant.....	37 00	
	<hr/>	61 99
		<hr/>
		1,000 00

PLAYGROUNDS

Appropriation	1,500 00	
	<hr/>	1,500 00

Expended

For Labor:

To Sundry Persons	809 10	
	<hr/>	809 10

For Hardware, Fittings, Apparatus, etc.:

Bartlett & Dow.....	61	
W. P. Brazer	272 71	
H. R. Barker Mfg Co.....	85 83	
J. C. Bennett.....	3 00	
Arthur Leland.....	232 00	
W. A. Mack Co.....	10 00	
	<hr/>	604 15

Playgrounds—Continued

For Sundries:

Boston & Maine R. R.	23 70
Begg & Cobb Tanning Co.	25 00
C. B. Coburn Co.	1 00
Davis Printing Co.	4 50
C. H. Hanson & Co.	2 50
N. E. Tel. & Tel. Co.	1 66
Amasa Pratt Co.	16 50
D. W. Stockbridge.	7 00
Western Union Telegraph Co.	60
C. A. Whittet.	4 29

86 75

1,500 00**ANNE ST. GROUNDS**

Appropriation	1,200 00
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1,200 00**Expended**

For Labor:

To Sundries Persons.	731 51
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731 51

For Sundries:

App. Parks, O. E.	17 00
App. Water Works.	15 30
App. Engineering	21 26
American Express Co.	30
Ames Implement and Seed Co.	59 50
Ashton Valve Co.	12 00
H. R. Barker Mfg Co.	18 05
Bartlett & Dow	10 00
Bennett Bros. Co.	6 15
John Brady	55 00
Boston & Maine R. R.	81
E. P. Bryant.	7 15

Anne St. Grounds—Continued

For Sundries—Continued

Edward Cawley	12 50
Henry A. Dreer	16 13
Mrs. C. A. Frost	14 13
Hamilton Mfg Co.	1 75
C. H. Hanson & Co.	17 00
F. W. Jenness	29 73
Lowell Co-operative Association	8 86
W. A. Mack Co.	50
J. P. Meehan Co.	10 00
N. E. Tel. & Tel. Co.	44
N. E. Nurseries	70 00
Olmsted Bros	53 49
Harry Parker ...	2 97
Robin Hill Nursery .	6 75
C. A. Whittet	1 72

 468 49

 1,200 00

LITTLE CANADA PARK

Appropriation	3,500 00
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 3,500 00

Expended

For Labor:

To Sundry Persons	11 41
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 11 41

For Sundries:

H. R. Barker Mfg Co.	124 00
H. C. Girard Co.	55
Props. Locks and Canals	5 00

 129 55

 140 96

Returned to General Treasury Fund	3,359 04
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 3,500 00

MEMORIAL DAY, G. A. R.

Appropriation.....	1,000 00
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1,000 00

Expended

For Printing and Music :

American Band	75 00
First Congregational Choir.....	25 00
Lowell Military Band	81 00
T. F. McCarthy	7 50
R. M. Daniels	3 00
Chas. Robinson	9 25
Shaw Stocking Co.....	7 00

207 75

For Entertainment and Transportation ;

Boston & Northern St. Ry.....	7 00
D. L. Page Co.....	201 25
F. E. Putnam	5 10
J. H. Sparks.....	71 50

284 85

For Sundries :

F. W. Cragin	10 50
Donovan Harness Co.....	3 00
E. R. Fife.....	10 76
John Harrington	4 00
Walter Jayes	2 50
Ladd & Whitney Post	9 51
Masten & Wells F. W. Co.....	110 50
Thomas McDonald	4 00
Morse & Beals.....	162 70
Daniel Murphy	4 00
E. Newton.....	18 03
Frank Peabody	25 00
Pevey Foundry Co.....	85 00
Props. Lowell Cemetery	3 00

Memorial Day, G. A. R.—Continued

For Sundries—Continued

Solon Stevens	5 00	
E. A. Thissell	5 00	
Geo. E. Worthen	9 00	
Chas. Young	35 00	
		507 40
		<u>1,000 00</u>

MEMORIAL DAY, SPANISH WAR VETERANS

Appropriation	350 00	
		<u>350 00</u>

Expended

For Printing and Music:

Lowell Cadet Band	75 00	
Union Printing Co	10 00	
		85 00

For Entertainment and Transportation:

City Transfer Co.....	9 00	
Lowell Coach Co.....	16 50	
E. P. Wolcott, Aux.....	100 00	
		125 50

For Sundries:

Bon Marche Co.....	4 48	
W. J. Carroll	16 00	
J. J. McManmon.....	35 00	
E. E. Nowlan	83 50	
		138 98

349 48

Returned to General Treasury Fund

52

350 00

BAND CONCERTS

Appropriation	675 00
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	<u>675 00</u>
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Expended**For Music :**

American Band	125 00
City Band	125 00
Lowell Cadet Band	125 00
Lowell Military Band	125 00
National Band	125 00

	<u>625 00</u>
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For Sundries :

Lowell Electric Light Corp	8 02
Robertson Co.	17 50
Tucke & Parker Co.	15 00

	<u>40 52</u>
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	<u>665 52</u>
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Returned to General Treasury Fund	9 48
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	<u>675 00</u>
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FOURTH OF JULY

Appropriation	1,500 00
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	<u>1,500 00</u>
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Expended**For Sports, Prizes, etc.:**

James Carr	30 00
J. H. Condon	5 00
J. W. Daly	5 00
W. F. Fadden	5 00

Fourth of July—Continued

For Sports, Prizes, etc.—Continued

M. Hoar	5 00	
J. King	20 00	
Lowell Americans	55 00	
J. Neeson	5 00	
W. Salmon	10 00	
		<hr/>
		140 00

For Music and Bell Ringing :

City Band	100 00	
Lowell Cadet Band	100 00	
Lowell Military Band	100 00	
National Band	100 00	
J. J. Johnson	10 00	
Arthur Willman	10 00	
		<hr/>
		420 00

For Fireworks :

National Fireworks Mfg. Co	900 00	
		<hr/>
		900 00

For Sundries :

Richardson Hotel	5 00	
Tucke & Parker Co.	5 47	
		<hr/>
		10 47

For Labor :

Sundry Persons	27 50	
		<hr/>
		27 50

1,497 97

2 03

Return to General Treasury Fund

1,500 00

NORTH COMMON DRINKING FOUNTAIN

Appropriation	300 00	
		300 00

Expended

For Labor:

To Sundry Persons	90 44	
		90 44

For Sundries:

App. Water Works	12 83	
American Express Co.....	30	
Ashton Valve Co.	12 00	
H. R. Barker Mfg Co.....	12 90	
Edward Cawley	7 70	
J. P. Meehan Co.....	142 50	
E. A. Wilson & Co.....	21 33	
		209 56
		300 00

PLAYGROUND FOUNTAIN

Appropriation	100 00	
		100 00

Expended

App. Water Works.....	100 00	
		100 00
		100 00

NORTH COMMON DRAINAGE

Appropriation	2,050 00	
	<u> </u>	<u>2,050 00</u>

Expended

For Labor :

To Sundries Persons.....	1,151 73	
	<u> </u>	1,151 73

For Sundries :

App. Engineering	90 74	
Bartlett & Dow	6 69	
E. P. Bryant.....	1 70	
Edward Cawley	276 70	
C. B. Coburn Co.....	5 83	
C. H. Hanson & Co.....	20 00	
Pevey Foundry Co.....	178 63	
Pratt & Forrest.....	1 11	
E. A. & A. T. Smith	30 50	
D. T. Sullivan	32 00	
E. A. Wilson & Co.....	254 37	
	<u> </u>	898 27
		<u>2,050 00</u>

A. O. H. REVIEWING STAND

Appropriation	300 00	
	<u> </u>	<u>300 00</u>

Expended

For Labor :

To Sundry Persons	111 16	
	<u> </u>	111 16

A. O. H. Reviewing Stand—Continued

For Sundries:

App. Buildings, O. E.....	21 61	
Burnham & Davis Lumber Co.....	162 23	
C. H. Hanson & Co.....	5 00	
		<hr/>
		188 84
		<hr/>
		300 00
		<hr/>

SHEDD PLAYGROUND

Appropriation	10,000 00	
	<hr/>	
		10,000 00
		<hr/>

Expended

For Labor:

To Sundry Persons	2,390 10	
	<hr/>	
		2,390 10

For Landscape Gardener:

E. W. Bowditch.....	264 72	
	<hr/>	
		264 72

For Teaming:

John Brady.....	81 88	
E. P. Bryant.....	244 37	
Edward Cawley	57 07	
Connors Bros. Co.....	20 00	
J. J. Gray	11 00	
B. W. Johnson	69 38	
	<hr/>	
		484 33

Shedd Playground—Continued

For Hardware, etc.:

Adams Hardware & Paint Co.....	130 65
E. P. Bryant.....	23 00
Bartlett & Dow.....	25 60

 179 25

For Sundries:

App. Water Works.....	150 08
Burnham & Davis Lumber Co.....	170 59
W. E. Hatch	13 00
E. F. Hathaway	7 50
N. E. Tel. & Tel. Co	1 32
James Whittet.....	99 45

 441 94

 3,760 34

Balance to 1911.....

6,239 66

 10,000 00

10—UNCLASSIFIED

Carney Medal Fund ; Claims and Executions Court; Portrait,
Chas. D. Palmer.

CARNEY MEDAL FUND

Balance to 1910	200 00	
	<hr/>	200 00.
Balance to 1911	200 00	
	<hr/>	200 00
		<hr/>

CLAIMS AND COURT EXECUTIONS

Appropriation	5,858 71	
	<hr/>	5,858 71
		<hr/>

Expended

Catherine Ahern	310 00
Telesphoret Beauparlant	268 00
Fabian Belanger	15 00
Severin Belanger	30 00
John S. Brodie	81 00
Frank M. Brogan	123 20
Bridget Carrigan	100 00
A. C. Cook	6 50
Adm. Est. of Annie Dolan	125 00
Elizabeth Ferguson	75 00
Elizabeth Finnegan	50 00

Claims and Court Executions—Continued

Mary E Gateley	75 00	
Mary McLaughlin	50 00	
Sarah A. Mellen	40 00	
Mary O'Hearn.....	75 00	
Mary E. O'Laughlin	50 00	
John Payne	25 00	
G. W. Pearson.....	50 14	
Victoria Sousa.....	50 00	
H. F. Sullivan	35 00	
F. E. Rollins	4,123 64	
Molly Varnum, D. A. R.....	99 23	
		<u>5,858 71</u>

PORTRAIT, CHARLES D. PALMER

Appropriation	200 00	
		<u>200 00</u>
Expended		
To Ideal Studio	200 00	
		<u>200 00</u>

11—PUBLIC SERVICE ENTERPRISES

Water Works; Water Works, New Pump; Weigher, S.

WATER WORKS

Receipts	224,752 08	
		<u>224,752 08</u>

Expended

For Salaries and Wages :

Water Board :

R. J. Crowley	400 00	
R. Van Tassell	400 00	
J. G. Hill	400 00	
J. MacDowell	400 00	
		<u>1,600 00</u>

Robert J. Thomas, Superintendent	2,000 00	
John W. Crawford, Secretary.....	1,600 00	
Sundry Persons, Wages	99,807 32	
		<u>103,407 32</u>

Appropriation for City Debt	15,200 00	
		<u>15,200 00</u>

For Interest :

Commonwealth of Massachusetts.....	1,080 00	
Commissioners of Sinking Funds, Newton....	200 00	
Roundout Savings Bank	150 00	
Sundry Persons, Coupons	41,760 00	
Taunton Savings Bank.....	100 00	
		<u>43,290 00</u>

Water Works—Continued

For Stationery, Printing, etc.:

Bankers & Tradesman	5 00
Buckland Printing Co.....	33 25
Butterfield Printing Co.....	6 50
Courier-Citizen Co.....	187 00
Dumas & Co.....	181 59
The Elliott Co.....	141 10
Engineering News.....	5 00
Chas. E. Galley	75
H. C. Kittredge	25
Lawler Printing Co.....	4 50
L'Etoile Publishing Co.....	75
Library Bureau	13 02
Lowell Sun	13 25
Lowell Telegram.....	1 35
Municipal Journal	3 00
R. C. Paradis	80 00
G. C. Prince & Son.....	81 11
Sampson & Murdock Co.....	9 00
Shepard Publishing Co.....	3 00
Smith Typewriter Inspection Co.	13 75
Union Printing Co.....	299 00

 1,082 17

For Express, Transportation, etc.:

Adams Express Co.....	4 15
American Express Co	33 15
Boston & Maine R. R.....	96 77
Geo. F. Fall	50 00
C. H. Hanson Co.....	41 00
E. S. Howe	5 00
Manchester & Concord Express Co.....	2 45
Mercier, Auto	24 00
C. K. Miller	40 50
New York & Boston Despatch Express Co. .	6 75
New York, New Haven & Hartford R. R	793 94

 1,097 71

For Lighting and Telephone:

Lowell Electric Light Corp.	74 27
Lowell Gas Light Co.....	22 98
N. E. Tel. & Tel. Co.....	118 39

 215 64

Water Works—Continued

For Carriages, Harnesses and Repairing :

A. H. Cluer	154 40	
Columbus Buggy Co.....	12 91	
Donovan Harness Co.....	243 30	
C. H. Hanson & Co.....	109 00	
F. B. Hill & Co.....	143 ²⁵ / ₄ 25	
D. W. Parker	17 50	
		<hr/>
		680 36

For Automobiles and Repairs :

Lowell Automobile Co	3,391 89	
		<hr/>
		3,391 89

For Lumber :

Burnham & Davis Lumber Co.	145 85	
Davis & Sargent Lumber Co.....	21 56	
Amasa Pratt Co.....	176 83	
Pratt & Forrest	45 17	
		<hr/>
		389 41

For Brick, Cement, etc. :

E. A. & A. T. Smith	24 31	
D. T. Sullivan	494 94	
E. A. Wilson & Co.....	886 58	
		<hr/>
		1,405 83

For Fuel :

Horne Coal Co.....	7,059 77	
Joseph Mullin	15 00	
D. T. Sullivan	39 60	
E. A. Wilson & Co.....	5,120 59	
		<hr/>
		12,234 96

Water Works—Continued

For Hay, Grain, etc. :

J. B. Cover Co.....	5 30
R. H. Hynes.....	17 55
E. E. McCauslin.....	174 66
Joseph Mullin.....	20 40
H. E. Noyes & Son.....	10 50
Paul Vigeant & Co.....	300 75
Wilder & Wotton.....	1,069 36

1,598 52

For Hardware, Hydrants, Meters, etc.:

Adams Hardware & Paint Co.....	84 38
American and British Mfg. Co.....	110 74
Ashton Valve Co.....	1 10
F. G. Baldwin.....	11 85
H. R. Barker Mfg Co.....	182 49
W. T. S. Bartlett.....	79 40
Bartlett & Dow.....	14 20
J. Becht.....	7 88
J. C. Bennett.....	31 60
G. F. Blake Mfg. Co.....	25 51
Boston Engineers Supply Co....	813 97
Boston Steam Specialty Co.....	24 74
H. L. Bond Co.....	296 75
Boutwell Bros.....	499 83
Buffalo Meter Co.....	3 00
Builders Iron Foundry.....	757 83
Caucos Mfg Co.....	237 47
W. W. Carry Co.....	2 60
C. A. Claffin & Co.....	30 75
Chapman Valve Mfg. Co.....	246 80
Cheney & Thomson Co.....	632 89
C. B. Coburn Co.....	221 88
Coffin Valve Co.....	244 25
W. R. Conard.....	19 97
L. A. Derby.....	7 10
Doherty Bros.....	523 96
H. S. Drury.....	23 50
Eddy Valve Co.....	6 00
Edson Mfg. Co.....	34 75
Elliott Co.....	2 35
Emerson App. Co.....	12 50
Enbergs Elec. & Mech. Works.....	660 00

Water Works—Continued**For Hardware, Hydrants, Meters, etc.—Continued**

M. S. Feindel	5 50
G. W. Fifield	15 40
Gannon Meter Co.....	40 00
Halsey Gibson.....	35 00
H. C. Girard Co	8 21
C. E. Guthrie & Son.....	16 55
Hersey Mfg. Co.....	2,575 99
C. F. Hoisington & Son	97
Holly Mfg. Co	8 48
F. A. Houdlette & Sons	504 62
Jenkins Bros.	3 98
Jones Guage	10 00
Knowles Steam Pump Co.	5 53
N. D. Lafleur	18 73
Lead Lined Iron Pipe Co	4,806 68
Lock Regulator Co	8 91
Ludlow Valve Mfg. Co.....	1,349 85
Lynchburg Foundry Co.	26 00
Mathias Hart Co	60 70
Middlesex Machine Co.....	555 37
Chas. Millar & Son Co	6,342 27
H. Mueller Mfg. Co	7 24
National Meter Co.....	2,532 80
Neptune Meter Co.....	421 00
N. E. Electric Supply Corp.....	26 13
Nichols Foundry Co.....	15 40
Pennichuck Water Works	2 03
F. S. Perkins Co.	6 63
Pevey Bros	14 56
Pittsburg Meter Co.	139 09
Prentiss Tool and Supply Co.....	216 00
Rensselaer Mfg. Co.....	471 80
Regan & Kerwin	5 00
Rice & Co.....	77 83
Scannell Boiler Works	136 58
E. T. Shaw Co.	3 24
A. P. Smith Mfg. Co.....	438 25
E. E. Smith Co.....	70 89
Staples Bros.....	160 23
Thomson Meter Co	468 63
Thompson Hardware Co... ..	491 66
Tucke & Parker Co.....	125 42
J. S. Turner Mfg. Co.....	26 82
Union Water Meter Co.....	132 30

Water Works—Continued**For Hardware, Hydrants, Meters, etc.—Continued**

Water Works Equipment Co.....	35 00
Weston Electric Ins. Co.....	5 03
H. H. Wilder & Co	1 50
D. H. Wilson & Co.....	6 75
Henry R. Worthington.....	179 80

 28,469 39
For Paint, Oils, Packings, etc.:

Adams Hardware & Paint Co.	44 00
F. G. Baldwin	11 60
J. C. Bennett	2 50
Borne Scrymser Co.....	21 23
Boston Engineers Supply Co.....	35 13
Caucos Mfg. Co.....	52 29
C. B. Coburn Co.....	1,040 68
Walter Coburn Co.....	97 86
Eagle Oil & Supply Co.....	18 81
Eastern Oil Tank Co.....	69 50
A. W. Harris Oil Co... ..	21 06
Talbot Dyewood & Chemical Co....	11 11
Valvoline Oil Co	18 03

 1,443 80
For Refunds:

To Sundry Persons	274 25
-------------------------	--------

 274 25
For Sundries:

App. Engineering.....	716 41
App. Streets.....	29 86
F. & E. Bailey Co.....	6 50
F. G. Baldwin	5 09
F. M. Bill & Co.	32 95
E. M. Bowers	2 75
F. P. Bridges & Co.....	3 00
Caucos Mfg. Co.....	18 00
F. C. Church	211 50

Water Works—Continued

For Sundries—Continued

C. B. Coburn Co.....	72 08
Collins & Hogan... ..	75 00
Wm. R. Conard	133 16
F. O. Clark Engineering Co.....	30 00
J. W. Crawford	11 25
Cross Awning & Sign Co	1 50
J. J. Donnelly	19 95
J. L. Douglas	4 32
Emerson Apparatus Co.....	25 00
Fairbanks Co.....	4 55
T. F. Fay Est.....	6 00
J. B. Goodwin	2 00
C. H. Hanson Co.....	1 50
G. E. Hutchins	26 70
T. C. Lee & Co.	211 50
A. D. Little	37 00
T. J. McDonald	75
Jas. McKinley	21 00
Merrimack Mfg. Co....	27 30
Henry Miller & Son	490 50
W. W. Morrison.....	15 00
J. J. Moriarty	13 25
Morse & Beals.....	15 00
E. H. Morse....	25 00
J. Mountford.....	60 25
C. E. Munn	10 00
J. Murkland & Son.....	52 50
G. A. Nelson.....	5 80
N. G. Norcross	226 50
Maurice O'Connor.....	130 00
O'Sullivan Bros. Co....	32 50
D. W. Parker	3 00
Pawtucketville Cash Grocery.....	5 00
A. L. Ready & Son	6 25
Regan & Kerwin.....	28
S. A. Shattuck.....	224 11
W. A. Sherman	16 00
Simpson & Rowland.....	5 05
T. B. Smith	9 00
Staples Bros.....	300 00
P. Thomas	70 00
R. J. Thomas	437 94
Town of Chelmsford.....	45 27
F. L. Weaver & Son.....	2 35

Water Works—Continued**For Sundries—Continued**

Whittet & Co	164 68	
H. F. Whiting	1 25	
W. E. Westall	24 10	
B. W. Wiggin Co.	150 00	
E. A. Wilson & Co.	8 88	
M. F. Wood	2 00	
Wm. Zimmer.	70	
		<u>4,288 78</u>

Vacancy List:

To Sundry Persons ...	134 80	
		<u>134 80</u>
Balance January 1, 1911	220,204 83	
		<u>220,204 83</u>
		<u>4,547 25</u>
		<u>224,752 08</u>

WATER WORKS NEW PUMP

Appropriation	60,000 00	
		<u>60,000 00</u>

Expended**For Labor:**

To Sundry Persons	485 13	
Balance to 1911	59,514 87	
		<u>60,000 00</u>

CITY WEAIGHER**Salary**

Appropriation	800 00	
	<hr/>	800 00

Expended

To George F. Noonan	800 00	
	<hr/>	800 00

Other Expenses

Appropriation	10 00	
	<hr/>	10 00

Expended

To Baker Printing Co.	6 00	
George F. Noonan	1 20	
	<hr/>	7 20
Returned to General Treasury Fund		2 80
		<hr/>
		10 00

12—CEMETERIES

Edson and Others; New Gate.

CEMETERIES

Appropriation	7,641 74	
		<u>7,641 74</u>

Expended

For Salaries and Wages:

R. J. Gilmore, Superintendent	1,200 00	
Sundry Persons, Wages	4,678 01	
		<u>5,878 01</u>

For Water, Fuel, Cement, etc.:

App. Water Works	47 80	
Edward Cawley	75 50	
Horne Coal Co.	15 00	
E. A. & A. T. Smith	61 80	
E. A. Wilson & Co.	16 36	
		<u>216²/₁₀ 46</u>

For Hay, Grain, etc.:

G. M. Foster	160 75	
Wilder & Wotton	39 44	
		<u>200 19</u>

For Hardware, Fittings, etc.:

Adams Hardware and Paint Co.	11 03	
H. R. Barker Mfg. Co.	2 00	
W. T. S. Bartlett	156 00	
Bartlett & Dow	14 48	

Cemeteries—Continued**For Hardware, Fittings, etc.—Continued**

J. C. Bennett	9 09
C. B. Coburn Co.....	11 91
F. B. Hill & Co.....	3 90
W. McLarney & Co.....	2 27
Scott & O'Day Co.....	25 00
Stanley Garage.....	5 15
H. H. Wilder	4 16

 244 99
For Shoeing, Carriages, Harnesses and Repairs :

Culbert Harness Co.....	90
Donovan Harness Co.	14 10
M. J. Haggerty	4 60
C. H. Hanson Co.....	18 00
A. D. Mitten.....	4 50
G. R. Morse.....	28 50
H. J. O'Dowd	35 00

 105 60
For Plants, Manure, Loam, Sod, etc.:

Adams Hardware and Paint Co.....	1 50
R. W. Dix.....	76 00
Thos. Egan	2 00
Mrs. Foote	3 60
F. W. Jenness	84 00
O. J. Meechan.....	6 00
Geo. A. Parsons	59 00
J. A. Simpson	20 00
H. M. Spalding.....	51 00
Whittet & Co.	8 00
Cora J. Wilson	4 40

 315 50
For Stationery, Printing, etc.:

Baker Printing Co.....	58 75
Courier-Citizen Co.....	14 70
H. C. Kittredge	2 25
Library Bureau	4 20
Lowell Sun.....	14 40
Lowell Telegram.....	4 80

Cemeteries—Continued

For Stationery, Printing, etc.—Continued

G. C. Prince & Son	24 30	
Sampson & Murdock Co.....	3 00	
		<hr/>
		126 40

For Sundries :

App. Engineer.....	23 20	
App. Parks	5 00	
Adams Hardware & Paint Co.....	5 48	
Burnham & Davis Lumber Co.....	9 48	
Gustave Carlson	4 60	
C. B. Coburn Co.....	59 33	
J. L. Douglass.....	6 36	
B. F. Gately.....	2 50	
David Gerow ...	1 25	
J. B. Goodwin	60	
C. H. Hanson & Co.....	194 71	
Jas. S. Hastings	7 50	
The Kimball System.....	2 25	
Lowell Gas Light Co.....	9 17	
Manchester & Concord Express Co.....	15	
F. T. Mussey Supply Co.....	4 80	
N. E. Tel. & Tel. Co	2 87	
Amasa Pratt Co.....	24 00	
C. N. Rice.....	65	
J. P. Quinn.....	80 00	
E. E. Smith Co.....	2 95	
Standard Oil Co....	25 56	
Stanley Garage	67 80	
A. G. Stiles	8 00	
Whitman & Pratt Rendering Co....	6 40	
		<hr/>
		554 59
		<hr/>
		7,641 74
		<hr/>

NEW GATE

Appropriation	2,500 00	
		<hr/>
		2,500 00
		<hr/>
Balance to 1911	2,500 00	
		<hr/>
		2,500 00
		<hr/>

13—INTEREST

Notes and Bonds.

INTEREST

Appropriation	145,000 00	
		<u>145,000 00</u>

Expended

Blake Bros. & Co.....	2,320 70
Bond & Goodwin	1,398 45
Boston Five Cent Savings Bank	7,744 00
Bowery Savings Bank	6,000 00
Central Savings Bank	584 43
City Trust Co.....	12,600 00
Commonwealth of Massachusetts.....	2,003 25
Commissioners of Sinking Funds	326 66
Commissioners of Sinking Funds, Holyoke	207 00
G. C. & C. A. Delaney	40 00
Philip Dexter	1,954 80
Esterbrook & Co.....	5,414 50
Holyoke Mutual Fire Insurance Co.....	297 00
Home Savings Bank.....	2,825 24
Elizabeth Philbrick	90 00
Public Burial Grounds, Trustees	3,562 46
Loan and Trust Savings Bank	342 00
Loring Tolman and Tuppee.....	2,423 16
Lowell Institution for Savings.....	21,930 80
Lynn Five Cents Savings Bank.....	171 00
Malden Savings Bank	931 60
Ministry-at-Large	1,050 00
Jacob Nathan	40 00
John Nathan	40 00
National Life Insurance Co.....	1,746 00
National Life Insurance Co., Montpelier	846 00
Thomas Nesmith Bequest	30 00

Interest—Continued

New Hampshire Fire Insurance Co.....	1,068 76	
New York Savings Bank	2,000 00	
Old Colony Trust Co.....	17,541 00	
Peoples Savings Bank	1,200 00	
Props. Forest Hill Cemetery	2,088 00	
W. H. Read & Co.....	1,070 78	
Roundout Savings Bank	150 00	
Francis R. Safford.....	225 00	
Salem Savings Bank.....	480 00	
Salem Five Cents Savings Bank	427 50	
Schenectady Savings Bank.....	540 00	
Sundry Persons, coupons.....	28,132 50	
Treasurer High Street Church	30 00	
Trustees Thos. Nesmith Fund	750 00	
Jonathan Tyler Bequest	300 00	
Union Mutual Life Insurance Co....	852 00	
Washington Savings Institution	3,804 19	
Woburn Five Cent Savings Bank.....	180 00	
		137,758 78
Returned to General Treasury Fund.		7,241 22
		<u>145,000 00</u>

14—MUNICIPAL INDEBTEDNESS

Temporary Loans; City Debt.

TEMPORARY LOANS

Balance January 1, 1910	700,000 00	
Receipts	1,300,000 00	
		<u>2,000,000 00</u>

Expended

To Old Colony Trust Co.....	1,300,000 00	
Balance to 1911	700,000 00	
		<u>2,000,000 00</u>

CITY DEBT

Appropriation	289,114 20	
		<u>289,114 20</u>

Expended

Boston Five Cents Savings Bank	22,100 00	
Central Savings Bank	5,870 00	
Commonwealth of Massachusetts	7,750 00	
Commissioners of Sinking Funds.....	871 30	
G. C. & C. A. Delaney	2,000 00	
Philip Dexter	5,430 00	
Home Saving Bank	19,100 00	
Lowell Institution for Savings	151,344 90	
Lynn Five Cent Savings Bank	3,600 00	

City Debt—Continued

Malden Savings Bank	2,740 00	
National Life Insurance Co.....	7,200 00	
Old Colony Trust Co.....	90 00	
Roundout Savings Bank	7,500 00	
Salem Savings Bank....	1,500 00	
Schenectady Savings Bank	13,500 00	
Sundry Persons, Bonds.....	17,000 00	
Washington Savings Institution	21,518 00	
		289,114 20

15—SINKING FUNDS

City Debt; Water Works.

SINKING FUNDS

Appropriation	30,500 00	
		30,500 00

Expended

To Commissioners of Sinking Funds	30,500 00	
		30,500 00

16—AGENCY, TRUST, INVESTMENTS

State Tax; Non-Resident Bank Tax; County Tax; Liquor
Licenses; Grade Crossings.

STATE TAX

Appropriation	120,725 00	
	<hr/>	120,725 00
		<hr/>

Expended

To Commonwealth of Massachusetts.....	120,725 00	
	<hr/>	120,725 00
		<hr/>

NON-RESIDENT BANK TAX

Appropriation	10,749 45	
	<hr/>	10,749 45
		<hr/>

Expended

To Commonwealth of Massachusetts.....	10,721 80	
Returned to General Treasury Fund.....	27 65	
	<hr/>	10,749 45
		<hr/>

COUNTY TAX

Appropriation	83,726 66	
	<hr/>	83,726 66
		<hr/>

County Tax—Continued

Expended

To County of Middlesex, Tax of 1910.....	83,726 66	
		<u>83,726 66</u>

LIQUOR LICENSES

Appropriation	43,138 00	
		<u>43,138 00</u>

Expended

To Commonwealth of Massachusetts	42,762 75	
Returned to General Treasury Fund.....	375 25	
		<u>43,138 00</u>

GRADE CROSSINGS

Appropriation	163 90	
		<u>163 90</u>

Expended

App. Engineering	128 36	
William W. Duncan	16 10	
John F. Kelley.....	19 44	
		<u>163 90</u>

17 REFUNDS

Abatement Taxes, (After Payment); Moth and Beetle;
Release of Tax Titles.

ABATEMENT OF TAXES, (AFTER PAYMENT)

Appropriation	546 16	
		<u>546 16</u>

Expended

D. E. Conners.....	30 60	
G. M. Harrigan	19 38	
John Klish	2 00	
Locks & Canals Co.....	29 59	
Lowell Art Association.....	151 98	
Geo A. Lyon	118 00	
Zepharin Perresse	3 90	
Melvin G. Rogers	161 26	
Frank Santosusso	6 47	
Sarah A. Smith	22 00	
Clement Suprenant	98	
		<u>546 16</u>

MOTH AND BEETLE

Appropriation	4 10	
		<u>4 10</u>

Moth and Beetle—Continued**Expended**

D. E. Conners.....	4 10	
	<hr/>	4 10

RELEASE OF TAX TITLES

Appropriation	49 06	
	<hr/>	49 06

Expended

Dennis E. Conners.....	40 59	
Clement Suprenant	8 47	
	<hr/>	49 06

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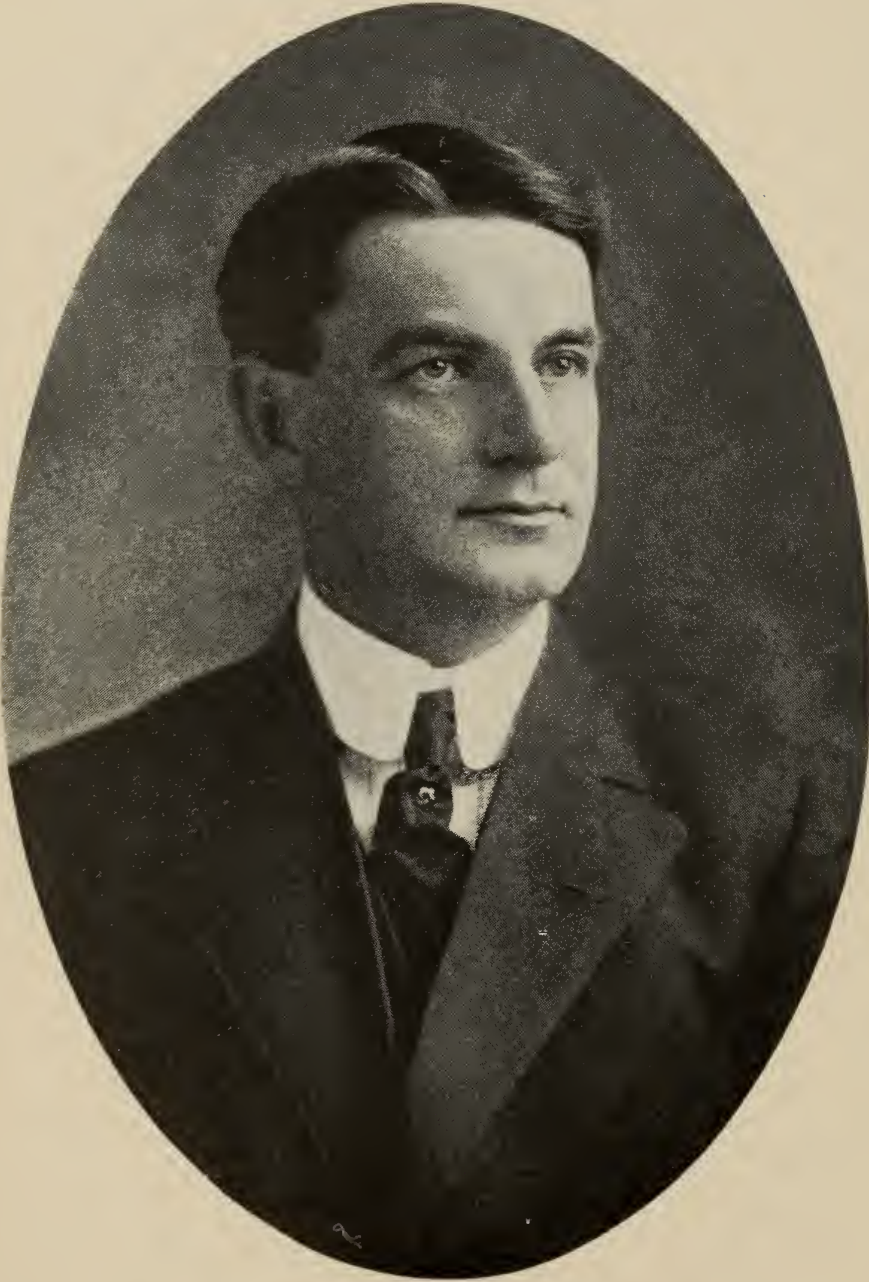
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ROBERT W. VAN TASSEL.
Member of Water Board since 1908. President, 1910.

THIRTY - EIGHTH

ANNUAL REPORT

OF THE

Lowell Water Board

TO THE

City Council of the City of Lowell, Mass.

And the Reports of the Superintendent of Water Works
and of the City Engineer to the
Water Board for 1910



LOWELL, MASS.

COURIER-CITIZEN COMPANY, PRINTERS

1911

WATER DEPARTMENT, 1910.

WATER BOARD

ROBERT W. VAN TASSEL, President.

Term expires second Monday in March, 1912.

JAMES G. HILL,

Term expires second Monday in March, 1914.

ROBERT J. CROWLEY,

Term expires second Monday in March, 1911.

JAMES McDOWELL,

Term expires second Monday in March, 1913.

JOHN W. CRAWFORD, Secretary and Clerk.

ROBERT J. THOMAS, Superintendent.

ROBERT GARDNER, Assistant Superintendent.

GEORGE BOWERS, City Engineer.

D. B. H. BARTLETT, Engineer.

THOMAS McLAUGHLIN, Engineer.

FRED A. COX, Keeper Reservoir.

THOMAS F. DOYLE, Foreman.

WM. HUNT, Foreman.

M. H. HARRINGTON, Foreman.

WILLIAM JOYCE, Assistant Foreman.

DANIEL CORCORAN, Meter Inspector.

THOS. HOLLAND, Hydrants and Gates.

EDWARD WALSH, Services.

OFFICE

HAZEN G. PILLSBURY, Service Clerk.

JULIA J. RAFTER, Bookkeeper.

ALICE T. McCARTHY, Assistant Bookkeeper.

JULIA A. MORRIS, Assistant Bookkeeper.

INSPECTORS

JOHN F. EGAN,

EDWARD J. BOYLE,

JOHN E. LONEY,

THOMAS B. RAFTER,

WALTER P. WILEY.

Report of the Water Board.

OFFICE OF THE WATER BOARD,
CITY HALL.

Lowell, Mass., January 1, 1911.

To His Honor, the Mayor, and the City Council of the City
of Lowell:

Herewith is presented for your consideration the thirty-eighth annual report of the Water Board, and the reports of the Superintendent of Water Works and of the City Engineer to the Water Board for the year ending December 31, 1910.

There was no change in the personelle of the Board, but Mr. Robert W. Van Tassel succeeded Mr. Robert J. Crowley as President.

The first important business of the year was to ask the City Council on March 21st to authorize a loan of \$75,000.00 for a new eight million gallon Triple Expansion, Crank and Fly Wheel Pumping Engine for the Centralville Station, and the President and Superintendent appeared before the Committee on Appropriations in advocacy of it. The Committee wished the Board to call for bids before a loan was authorized, which the Board declined to do. On August 25th a resolution was passed by the Board of Aldermen requesting the Water Board to "procure competitive bids for new pump for Centralville

Pumping Station so that an accurate estimate of the cost may be obtained." Accordingly, a call for bids was prepared and sent out. Eleven calls were issued, and six concerns sent in bids, as follows:

Platt Iron Works, Proposal No. 1 .	\$42,000.00	in	9	months.
" " " " " 2 .	41,000.00	"	9	"
Bethlehem Steel Co.	51,769.00	"	8	"
Wm. Tod Co.	39,900.00	"	9	"
Holly Mfg. Co.	41,769.00	"	8	"
Hooven, Owens, Rentschler Co. .	41,000.00	"	12	"
Allis-Chalmers Co.	40,700.00	"	5	"

The bids were opened at a meeting of the Water Board on September 27th, in the presence of His Honor, Mayor Meehan, and representatives of the concerns bidding.

A loan of \$60,000.00 for a pump was authorized by the City Council, and the contract for the pump was awarded to the Allis-Chalmers Co., of Milwaukee, the contract being signed by the Mayor on December 24th, so that from the date of first communication to the City Council until final signing of contract, over nine months elapsed.

Immediately on the signing of the contract for the new pump, calls were issued for the disposal of the old Morris Engine, bids to include the material and removal of same. The following bids were received:

Roxbury Iron & Metal Co. .	Boston	\$ 200.00
M. P. Coleman	"	483.00
E. Buxton & Son Co. . .	Lowell	415.00
D. Ziskind & Co. . . .	"	586.00
A. J. Harris & Son . . .	"	1,150.00

The contract was awarded to A. J. Harris & Son, and the engine was dismantled and removed expeditiously and without accident.

275 tons of pipe was purchased at a price of \$25.50 per ton. In April, a Buick automobile car for the Superintendent, and in June, a Buick truck for general work on gates and hydrants were obtained through the Purchasing Department, and have been in constant use with good results.

In July, a communication was received from the State Board of Health advising the acquiring of additional land at the Boulevard for the purpose of enlarging and improving the water supply of the City. The real estate firm of Collins & Hogan were employed to look up the owners and obtain options on the land, there being some twenty owners holding sixty-eight lots. The assessed value is \$3,250.00, and the prices asked aggregate over \$17,350.00. It is the purpose of the Board to ask the City Council to condemn the land for Water Works, and to authorize a loan for the purpose.

The receipts from water rates were	.	.	\$200,511.55 and
The receipts from labor and material	.	.	23,233.89
<hr/>			
Total receipts were	.	.	\$223,745.44 and
The expenses were	.	.	\$221,234.45

The final payments were made on the last of the loans for driven well purposes, amounting to \$12,500.00 annually.

The growth of the City is adding to the necessity of providing adequate facilities, such as larger mains, and a new reservoir to provide adequate pressure in the higher sections; a new building at the Boulevard to protect the machinery there. The present building would burn like tinder if once on fire. Additional land and more wells are imperatively needed, and so long as the City endures, the Water Works will require renewal and extension of works.

The Superintendent's report tells the work that has been done, in detail and points out some of the things needing im-

mediate attention. The Engineer's report gives details as to cost of pumping and the Secretary's tables show finances.

ROBERT W. VAN TASSEL,
ROBERT J. CROWLEY,
JAMES G. HILL,
JAMES McDOWELL.

Herewith is submitted a statement of the financial details of the Water Works for the year 1910, arranged in tables for every branch of the Department.

Respectfully,

J. W. CRAWFORD,

Secretary.

FINANCIAL STATEMENT—LOWELL WATER WORKS, 1910.

Table I.	CHARGES.				RECEIPTS BY ACCOUNTS.					
	WATER			Total, 1910	Other than Water	Receipts	Discounts	Abatement	Due	
	Rate	Meter	Total							
Transfer	.....	.....	.....	\$ 3,585 08	.....	\$ 1,258 29	\$ 13 89	\$ 257 95	\$2,054 95
January .	\$ 16 75	\$ 37,375 27	\$ 37,392 02	\$ 42,264 91	\$ 4,872 89	38,489 65	3,559 66	89 31	126 29	
April . . .	.....	44,292 79	44,292 79	46,306 38	2,013 59	42,022 37	4,182 99	26 00	75 02
May	26,048 02	.....	26,048 02	26,048 02	.....	23,703 25	2,143 94	100 83	100 00
July	189 02	72,132 03	72,321 05	78,068 66	5,747 61	70,607 28	6,804 95	317 27	339 16	
October .	645 36	41,432 63	42,077 99	53,099 01	11,021 02	47,664 41	3,950 83	545 06	938 71	
Total . .	\$26,899 15	\$195,232 72	\$222,131 87	\$249,372 06	\$23,655 11	\$223,745 25	\$20,656 26	\$1,336 42	\$3,634 13	

FINANCIAL STATEMENT—LOWELL WATER WORKS, 1910. OUTGO.

TABLE II.	Pay Roll and Salaries	Water Works Supplies	Interest and Principal	Refund and Vacancies	General Expense	Stable	Coal	Total, 1910	Total, 1909
January	\$ 7,056 51	\$ 2,535 78	\$ 400 00	\$ 7 40	\$ 912 02	\$ 117 09	\$ 12 50	\$ 11,041 30	\$ 8,168 54
February	6,694 91	1,720 37	910 00	27 30	476 92	220 14	.....	10,049 64	8,144 35
March	7,370 34	2,218 57	.....	.....	36 83	2,281 28	236 25	12,143 27	11,466 38
April	10,517 21	9,234 40	40 00	9 50	809 41	482 33	2,051 27	23,144 12	16,672 44
May	9,032 60	2,229 28	19,220 00	100 82	385 15	1,359 56	232 85	32,327 41	30,833 66
June	8,950 50	3,064 26	1,740 00	156 10	229 32	210 27	4,190 83	14,583 30	12,605 28
July	10,636 90	1,725 26	160 00	18 43	211 61	226 21	3,528 10	17,169 24	27,714 43
August	8,816 07	2,937 19	12,600 00	3 78	68 54	258 56	1,720 79	28,212 24	13,392 33
September	9,017 02	1,793 29	40 00	3 15	211 92	309 98	1,528 66	13,096 15	13,688 76
October	10,355 16	2,264 51	60 00	50 32	130 88	114 79	.....	14,504 32	13,853 00
November	8,022 97	1,546 61	22,520 00	.....	233 76	612 37	.....	32,935 71	34,011 53
December	9,253 54	832 46	1,829 62	.....	9 40	102 73	.....	12,027 75	13,523 32
Total	\$105,723 73	\$32,101 98	\$59,519 62	\$376 80	\$3,715 76	\$6,295 31	\$13,501 25	\$221,234 45	\$204,074 02

FINANCIAL STATEMENT—LOWELL WATER WORKS, 1910.

SUB-DIVISION OF "OTHER THAN WATER CHARGES" FROM TABLE I.

Table III.	Meters Sold	Expense Setting Meters	Expense Repairing Meters	New Services	Change Services	Labor and Material	Shut-off Fees	Interest and Premium on Bonds	Total, 1910	Total, 1909
January	\$1,435 72	\$ 78 60	\$ 333 35	\$ 451 07	\$ 712 25	\$1,861 90	.....	.....	\$ 4,872 89	\$ 5,854 70
April	544 89	166 54	364 33	438 76	83 35	413 72	\$ 2 00	.....	2,013 59	1,463 27
July	2,030 20	257 65	495 13	963 75	854 53	986 08	2 00	\$ 158 27	5,747 61	5,969 07
October	2,721 31	470 96	428 16	917 03	1,031 12	4,019 37	8 00	1,425 07	11,021 02	7,240 32
Total	\$6,732 12	\$973 75	\$1,620 97	\$2,770 61	\$2,681 25	\$7,281 07	\$12 00	\$1,583 34	\$23,655 11	\$20,527 36

FINANCIAL STATEMENT,—LOWELL WATER WORKS, 1910.

SUB-DIVISION OF PAY ROLL AND SALARIES FROM TABLE II.

TABLE IV.	Salaries Water Board	Meter Work	Office and Officials	Extension and Construc- tion	Engineer- ing	Pumping Station Centralville	Pumping Station Boulevard	Pumping Station Cook Plant	New Services	Changed Services	General Maintenance	Total, 1910	Total, 1909
January . . .	\$ 133 32	\$ 269 34	\$ 1,009 24	\$ 79 46	.....	\$ 725 03	\$ 617 83	\$ 174 00	\$ 13 50	\$ 2 00	\$ 4,032 79	\$ 7,056 51	\$ 6,540 94
February . .	133 32	339 56	973 52	76 72	.....	782 72	619 29	168 00	.....	58 50	3,543 28	6,694 91	5,621 91
March	133 32	369 50	933 52	76 72	.....	782 72	619 04	168 00	75 00	125 25	4,087 27	7,370 34	6,383 33
April	133 32	520 64	1,216 90	681 17	.....	972 40	770 80	196 00	300 30	316 62	5,409 06	10,517 21	6,598 07
May	133 32	442 69	981 24	226 73	.....	764 72	621 29	181 00	177 50	494 61	5,009 50	9,032 60	9,385 75
June	133 32	358 05	981 24	794 64	\$531 65	784 35	619 85	140 00	374 89	211 18	4,021 33	8,950 50	7,394 35
July	133 36	507 54	1,196 55	856 43	.....	877 62	784 05	418 38	271 87	310 98	5,280 09	10,636 90	9,550 91
August	133 36	374 51	989 24	620 65	119 78	678 47	540 29	497 00	259 89	444 99	4,277 67	8,816 07	8,479 41
September . .	133 36	343 56	989 24	331 75	.....	645 97	573 04	479 63	211 63	390 48	4,793 58	9,017 02	9,031 05
October	133 36	511 25	1,236 55	709 48	.....	799 90	724 55	558 25	353 65	389 15	4,939 02	10,355 16	11,528 29
November . . .	133 36	352 47	989 24	622 75	.....	690 22	573 73	375 50	372 00	229 88	3,683 82	8,022 97	8,667 93
December . . .	133 28	515 90	1,223 86	182 03	64 98	938 23	708 24	266 50	147 75	246 84	4,825 87	9,253 54	8,658 95
	\$1,600 00	\$4,905 01	\$12,720 34	\$5,258 59	\$716 41	\$9,448 38	\$7772 00	\$3,622 26	\$2,557 98	\$3,220 48	\$53,908 28	\$105,723 73	\$97,840 89

TABLE V.

FINANCIAL STATEMENT—LOWELL WATER
WORKS, 1910.

SUB-DIVISION WATER WORKS SUPPLIES FROM TABLE II.

Supplies, Centralville Station	\$ 1,166 29
Supplies, Boulevard Station	1,229 74
Supplies, Cook Station	250 21
Cast iron pipe and specials	8,542 25
Hydrants, gates and boxes	3,521 41
Service pipe and boxes	5,338 54
Meters	6,533 60
Machinery and tools	1,607 35
Miscellaneous	3,912 59
	<hr/>
	\$32,101 98

FINANCIAL STATEMENT—LOWELL WATER WORKS, 1910.

DETAIL OF "PRINCIPAL AND INTEREST," FROM TABLE II.

TABLE VI.						
	Amount of Debt, Jan. 1, 1910	Rate	Interest Paid, 1910	Paid on Notes, 1910	Amount of Debt Jan. 1, 1911	Date of Maturity
Water loan bonds	\$1,000,000 00	4			\$1,000,000 00	1920
11 Coupons, No. 37, May 1, 1909			\$ 220 00			
43 Coupons, No. 38, Nov. 1, 1909			860 00			
973 Coupons, No. 39, May 1, 1910			19,460 00			
926 Coupons, No. 40, Nov. 1, 1910			18,520 00			
Registered bonds			880 00			
High service bonds	75,000 00	4			75,000 00	1911
1 Coupon, No. 56, Nov. 1, 1909			100 00			High service
14 Coupons, No. 57, May 1, 1910			1,400 00			
12 Coupons, No. 58, Nov. 1, 1910			1,200 00			
Registered bonds			400 00			
NOTES	5,000 00	4	200 00	5,000 00		Driven wells
"	7,500 00		300 00	7,500 00		"
"	18,900 00	4½	779 62	2,700 00	16,200 00	Wigginville Ext.
					60,000 00	New pump
	\$1,106,400 00		\$44,319 62	\$15,200 00	\$1,151,200 00	

TABLE VII.
FINANCIAL STATEMENT—LOWELL WATER
WORKS, 1910.

MAINTENANCE.

Paid for labor and salaries:

Water Board	\$ 1,600 00
Office and Officials.....	12,720 34
Pumping Stations	20,836 64
Meter Work	4,905 01
Engineering	716 41
General Maintenance.....	57,128 76

Cost of material:

Output as per stock book.....	8,006 19
Water Works' supplies	9,235 70
Stable	6,295 31
Pumping Station's supplies	2,646 24
Fuel	13,501 25
Interest	44,319 62

\$181,911 47

CONSTRUCTION.

Paid for labor	\$ 7,816 57
Output as per stock book.....	13,075 08
Payment on loan	15,200 00
	<hr style="width: 20%; margin-left: auto; margin-right: 0;"/>
	\$36,091 65

TABLE VIII.

FINANCIAL STATEMENT—LOWELL WATER
WORKS, 1910.

LOAN FOR NEW PUMP.

Amount of loan	\$60,000 00
Expended for labor	485 13
	<hr/>
Balance to 1911	\$59,514 87

Superintendent's Report.

Lowell, Mass., January 1, 1911.

To the Lowell Water Board:

Gentlemen:—In compliance with the requirements of the City Ordinances, I have the honor to present to your Honorable Board the Annual Report of the Superintendent of Water Works for the year ending December 31, 1910.

WELLS.

The quantity of water available has fallen off considerably, owing to the continued low rainfall of the past few years, still the amount yielded by the driven wells was sufficient, so that at no time was there any fear of immediate scarcity. The quality of the water however has deteriorated to quite an extent especially in appearance. This is particularly noticeable at the Reservoir where its turbidity is quite marked; complaints of its discoloring and staining white clothes in washing having been very common. Many localities have been troubled with rusty water, in some cases the water being muddy and black. Never since the driven wells were put in, has there been so much dissatisfaction with the condition of the water. In addition to its high color, a disagreeable odor has also emanated from it at

times. Possibly cleaning the Reservoir would improve the water some, but the addition of 300 new wells in new land would be the more certain remedy both from the standpoint of quantity as well as quality, and I believe your Honorable Board should take steps to acquire more land either by purchase or condemnation proceedings. The ten or more acres of land that the State Board of Health recommends the City to obtain possession of shows, as far as the test wells driven by the Department goes, that it would be all right for more wells. It is also adjacent to the Lower Boulevard Pumping Station which makes it all the more favorable. If the addition of more wells does not restore the water supply to its former good condition, measures must be taken towards its filtration, for it is intolerable to think of allowing the present dissatisfaction to continue.

Early in May, thirty-seven of the oldest wells on the extreme end of Section A were taken up and a new line of thirty-five wells put in nearer the Boulevard and extending towards the Pumping Station. These wells yield considerable water of good quality, when tested individually, but of course are not sufficient in number to materially affect the whole supply. More trouble was experienced during the year from clogging of service pipes than ever before and is attributable to iron in the water. Further enlargement of the Boulevard Wells supply is imperative and will shortly be absolutely necessary. In order to help out the Boulevard Wells, the Cook Wells Plant was started July 12th and continued in use until November 6th. Complaints of poor pressure in the Highlands also prompted the starting of this Station.

In regard to this lack of pressure, caused no doubt by the cutting off the supply through Lincoln Street, nothing further was heard after the Cook Wells were brought into use. While these wells were in use, they were all cleaned individually. The yield of water from them, however, diminished to such an extent, that for the last month they ran only one and three-quarter million gallons daily.

PUMPAGE AND COAL.

The amount pumped was 231,836,416 gallons at the Cook Wells and 1,806,579,671 gallons at the Boulevard Station. The average daily consumption of water was 5,442,967 gallons, an increase of about one-quarter of a million gallons over the year 1909.

Probably the increase in the consumption accounts for the 126 tons of coal used the past year in excess of the previous year, although operating the Low Duty Worthington Pump a longer period than usual caused the use of more coal. At the Boulevard Lower Pumping Station, the consumption of coal increased, due to trouble with the Rotary Vacuum Pump. The amount of coal used at all the Stations was 6,730,775 lbs., or 3,003 tons. In 1909 the expenditure for coal was \$8,895.30, but as stated in the Report of that year, the expenditure for coal in 1910 would be necessarily greater, as considerable coal was left over from 1908. Still, the expenditure of \$13,501.25 for coal in 1910 was very much less than the average of the ten years preceding, which was \$20,000.00.

PUMPING STATIONS.

A new generating set, manufactured by the Engberg Electrical and Mechanical Works, St. Joseph, Michigan, was installed and operated satisfactorily during the year at the Boulevard Lower Station; also for the same Station, a new 6 x 14 x 6 straight line, L. V. type, Rotary Vacuum Pump, manufactured by the Geo. F. Blake Mfg. Co., was purchased through the Boston Engineers' Supply Co. for the sum of \$585.00, and was started last October. This pump was very badly needed, as the other Rotary Vacuum Pump was too small, making it necessary to run an old Duplex Air Pump which consumed almost as much steam as the Holly Eight Million Gallon Pump. This accounts for the increased coal consumption at the Station, as before stated.

At the Centralville Pumping Station the usual work of repairing and renewing, in order to maintain the pumps in running condition, was done, yet despite everything, little or no results could be obtained from the Morris Engine, so that the success of your efforts in getting a loan for a new pump to replace this engine with an up-to-date machine, will not only prove a coal saver, but will also reduce the expense for repairs.

EXPENDITURES.

An increase of \$11,026.99 in expenditures is accounted for in the greater amount of coal and pipe purchased and in the increase of \$7,883.24 in the Pay Roll, made necessary by the extraordinary maintenance work. All the streets repaved or permanently resurfaced were dug up, and the service pipes repaired and renewed, and in some cases the mains were replaced by new and larger pipe.

The abolition of the railroad grade crossing also called for a great amount of extra work—as, for example, on Lincoln Street, 855 feet of 12" main was removed and afterwards relaid when the new grade of street was finished. On Plain Street, 889 feet of 6" and 8" pipe was taken up and later replaced by 506 feet of 10" pipe. 582 feet of 10" main on Western Avenue and 372 feet of 6" main on Walker Street were also taken out on account of grade crossing work. These mains have not as yet been relaid.

Preliminary to the macadamizing of Middlesex Street beyond the junction of Pawtucket Street, 1,000 feet of the 8" main was raised from 9 feet deep to the regular depth, and at the same time was moved from under the street car tracks. The labor cost of maintenance, similar to the foregoing, the changing and renewing of old mains, services, hydrants, street valves, etc., is on the increase every year. Another cause of addition to the pay roll is the removal of Gypsy and Brown Tail moths from the trees at the Cushing Woods and the Woodland at the Cook

Wells. Labor cost of adding 35 new wells and connecting the same, amounting to \$1,080.00, is also included under the head of Maintenance.

STREET MAINS.

In number of feet the addition to the street distribution pipes was not quite equal in amount to 1909, but during the past year, more large pipe was laid than during the previous year, for example, there was 1,769 feet of 12" pipe laid in 1910, and none the year before, also 8" pipe was laid during the past year where formerly 6" pipe would have been used. This accounts for the reduction in the number of feet of 6" pipe extended as compared with previous years. Following is a table showing the total length of cast iron main distribution pipe of each size.

DISTRIBUTION PIPE IN SERVICE JAN. 1, 1911.

Low Service.		High Service.	
4 inch.....	35,416	feet.....	1,785 feet
6 “	435,172.5	“	28,880.5 “
8 “	134,153.5	“	8,626.5 “
10 “	26,052	“	1,382 “
12 “	62,461	“	7,873 “
16 “	10,988	“	
20 “	5,832	“	
24 “	3,992	“	
30 “	4,563	“	
<hr/>		<hr/>	
718,640		feet	48,547 feet
Total High and Low Service Mains .....767,187 “			
“ “ “ “ “ “	in miles		145.30

In connection with the extension of mains, 63 new stop gates were set.

In the addition to the distributing mains, no account is made of the 450 feet of 12" and 8" main laid through Stirling Mills Yard to take the place temporarily of the 12" main which was taken up to allow for the building of a new bridge on Lawrence Street. This will have to be relaid when the bridge is finished, this coming year, and the temporary pipe in the Stirling Yard removed.

Advantage was taken of the grade crossing work at Plain Street Railroad Crossing to replace the 6" main by a 10" main, beginning at Main Street and extending across the new bridge to Border Street. On Lincoln Street, at the railroad crossing, the 12" main was taken up from Main Street to Autumn Street and relaid according to new grade of the street. The pipe crossing both Lincoln and Main Street bridges is carried in the floor brackets of the southerly sidewalks.

The replacing of the 6" main in Shaw Street, between Chelmsford and Powell Streets, by 12" pipe was for the purpose of increasing the supply of water in that section of the city, and should be still further extended to Wilder Street. A 12" main should also be laid in Hale Street, connecting the 12" mains on Thorndike and Chelmsford Streets, thus reinforcing the Middlesex Street 12" main which is now the principal feeder of the Highland District. At present, the water supplied through the main pipes on Western Avenue and Walker Street is interrupted, pending the completion of the grade separation work on those streets.

HYDRANTS.

Twenty-three new fire hydrants were set during the year and four discontinued. The three flush hydrants which were located on canal side of Anne Street were removed and three post hydrants set on the opposite side of the street in their place. Nine other flush hydrants were changed for post hydrants, and nine defective post hydrants were replaced by new. 235 hydrants were repaired.

HYDRANTS CHANGED, 1910.

TAKEN OUT	SET	STREET
Michigan	Ludlow	Clifford
“	“	Midland
“	Corey	Pine
Ludlow	Ludlow	School
Boston Post (4)	“ (4) ...	Middlesex
“ “	Chapman	White
Pratt & Cady	Ludlow	Marginal
Flush	“	Middlesex
“ (3)	“ (3) ...	Anne
“	“	Church
“	“	Merrimack
“	“	Mt. Washington
“	“	Nesmith
“ (3)	“ (3) ...	Varney
“	Chapman	Quebec

22 Hydrants Changed, 1910.

HYDRANTS, JANUARY 1, 1911.

KIND	FLUSH	2 NOZ.	3 NOZ.	4 NOZ.	TOTAL
Boston Machine			170		170
Chapman		3	108	51	162
Coffin			1		1
Corey			38		38
Eddy			32	1	33
Fairbanks			20		20
Flush	338				338
Glanmorgan			1		1
Holyoke				1	1
Kennedy			1		1
Lowrey 10					10
Ludlow		3	424	14	441
Michigan			15		15
O'Brien			1		1
A. P. Smith			1		1
Perkins				1	1
Walker			17		17
Totals 10	338	6	829	68	1,251

NEW HYDRANTS SET, 1910.

Bartlett Street	6"	Ludlow Hydrant
Beacon Street	6"	Pratt & Cady
Bennett Street	6"	Ludlow
Brookside Street	6"	Boston Post
Duren Avenue	6"	Chapman
E. Merrimack Street	6"	Boston Post
Harris Avenue	2 6"	Chapman
Harland Avenue	6"	Ludlow
Hoyt Avenue	6"	"
Lincoln Street	6"	"
Middlesex Street	6"	"
Newhall Street	6"	Boston Post
Perry Street	6"	Ludlow
Perry Street	8"	"
Plain Street	6"	Boston Post
Sidney Street	6"	Ludlow
Stackpole Street	6"	"
Summit Street	6"	Chapman
Trull Terrace	6"	Ludlow
Warrenville Avenue	6"	"
Webber Street	6"	Boston Post
Wilder Street	6"	Ludlow

HYDRANTS DISCONTINUED

Andover Street	6"	Ludlow
Lincoln Street	6"	"
Marshall Road	6"	Boston Post
Walker Street	6"	Ludlow
Western Avenue	6"	"

6" Ludlow Hydrant moved from Andover Street to Trull Terrace.

FIRE SERVICES.

A new 6" fire service for automatic sprinklers was laid into New Merrimack Square Theatre from French Street, and a new 4" fire service into the Lowell Jail, Thorndike Street, for automatic sprinklers in Waste House.

Meters were set on the following fire services: American Safety Tread Co., Perry Street, 6" Hersey Detector; W. H. Bagshaw, Wilson Street, 2" Keystone; F. P. Cheney Box Shop, St. Hyacinth Street, 4" Hersey Detector; Walter Coburn, Congress Street, 2" Crown; John C. Meyer & Co., Middlesex Street, 4" Hersey Detector; Pilling's Shoe Factory, Shaffer Street, 6" Hersey Detector; Thorndike Mfg. Co., Thorndike Street, 3" Hersey Detector.

Six services, formerly carried on the books as fire services, have been cut off, as follows: Belvidere Woolen Co., Lawrence Street, 8" pipe; Lamson Cons. S. S. Co., Walker Street, two 4" pipes; U. S. Bunting Co., Chambers Street, one 1" and two 2" pipes. Davis & Sargent Lumber Co., Middlesex Street, had fire service pipe changed from 4" to 6" pipe, but have no meter, as the water has not yet been let on.

SERVICES.

Two hundred and twenty-eight new services were laid during the past year, an increase of 38 compared with the previous year. Most of these were as usual tin-lined iron pipe, although 32 were galvanized iron, 9 cast iron and one cement-lined iron pipe. Trouble with old services is rapidly increasing. Last year's Report said, "The work of changing or renewing old services was considerably in excess of the previous year," yet only 278 services were changed that year, 1909, against 350 the past year.

NEW SERVICES, 1910.

NO.	KIND.	FEET
169	$\frac{3}{4}$ " iron tin-lined pipe	6,242- 5"
18	1 " " " " "	865
1	$1\frac{1}{2}$ " cement lined pipe	43
12	$\frac{3}{4}$ " galvanized iron pipe	388-11"
10	1 " " " " "	308
5	$1\frac{1}{2}$ " " " " "	254- 5"
5	2 " " " " "	181- 6"
5	4 " cast iron pipe	315- 9"
3	6 " " " " "	232- 2"
<hr/>		<hr/>
228		8,831- 2"
Total previously laid		485,656 ft.
"	now laid	494,487
"	services laid	13,373
"	cut off at main	957
"	reconnected	78
"	now in use	12,494

SERVICES CHANGED, 1910.

CHANGED TO											
No.	Kind	Tin Lined 3" 4	Tin Lined 1"	Galv. Iron 3" 4	Galv. Iron 1"	Galv. Iron 1 1/2"	Galv. Iron 2"	Cement Lined 1"	Cement Lined 1 1/2"	Lead 3" 4	Totals
211	Iron	5,765'-11"									5,765'-11"
1	"				27'-11"						27'-11"
7	"		323'-9"								323'-9"
12	"			419'-1"							419'-1"
36	"	1,215'-7"									1,215'-7"
22	"		625'-6"								625'-6"
2	"				48'-3"						48'-3"
1	"							14'			14' 0"
1	"			30'-10"							30'-10"
1	"				33'-0"						33'-0"
5	"					90'-20"					90'-20"
1	"				42'-7"						42'-7"
1	"		26'-6"								26'-6"
1	"	26'-0"									26'-0"
1	"	70'-0"									70'-0"
1	"		31'-10"								31'-10"
1	"	38'-6"									38'-6"
4	"						76'-9"				76'-9"

1	3" 4	L. L.	"	.....	.....	88'- 6"	.....	.....	.....	88'- 6"
3	3" 4	"	"	65'- 7"	.....	.....	.....	.....	.....	65'- 7"
1	1	"	"	67'- 9"	.....	.....	.....	.....	.....	67'- 9"
1	2	"	"	.....	.....	.....	.....	19'-6"	.....	19'- 6"
1	2	"	"	.....	.....	.....	8'-0"	.....	.....	8'- 0"
1	3" 4	T. L.	"	.....	18'- 6"	.....	.....	.....	.....	18'- 6"
7	3" 4	"	"	167'- 3"	.....	.....	.....	.....	.....	167'- 3"
6	5" 8	Lead	"	153'-11"	.....	.....	.....	.....	.....	153'-11"
1	5" 8	"	"	.....	16'- 7"	.....	.....	.....	.....	16'- 7"
8	3" 4	"	"	148'-10"	.....	.....	.....	.....	.....	148'-10"
3	3" 4	"	"	.....	49'- 7"	.....	.....	.....	.....	49'- 7"
1	3" 4	"	"	.....	.....	.....	.....	.....	10'-6"	10'- 6"
5	1	"	"	.....	143'- 8"	.....	.....	.....	.....	143'- 8"
1	1	"	"	.....	.....	31'- 8"	.....	.....	.....	31'- 8"
1	1	"	"	.....	.....	.....	27'-7"	.....	.....	27'- 7"
350	Totals			7,719'- 4"	1,219'- 4"	466'- 6"	271'-11"	91'- 8"	112'-4"	14'	19'-6"	10'-6"	9,925'- 1"

PRIVATE METERS RUNNING JANUARY 1, 1911.

SIZES	$\frac{3}{8}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{2}$ "	2"	Total
Columbia		9					9
Crown	1	32	24	2	2		61
Desper			3	1			4
Duplex		1					1
Empire		6				1	7
Frost		1	1				2
Hersey		44	4			1	49
Keystone				1			1
King		1					1
Lambert		20					20
Nash		24	2	2		1	29
Thomson			1				1
Trident			6				6
Worthington				1		3	4
Worthington-Disc		1					1
Total	1	139	41	7	2	6	196

METERS RUNNING JANUARY 1, 1911.

SIZES	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	1 $\frac{1}{2}$ "	2"	3"	4"	6"	8"	TOTAL
Columbia	110	4	...	...	...	...	...	...	...	114
Crown	3,121	1,634	329	24	42	6	5	5	...	5,166
Desper	14	4	3	...	...	...	...	...	...	21
Duplex.....	1	1	3	...	...	...	...	...	...	5
Empire	269	45	10	5	6	2	...	...	...	337
Frost .....	...	1	...	...	...	...	...	...	...	1
Gem .....	...	...	...	...	8	...	5	1	...	14
Hersey	1,257	191	16	9	3	1	1	...	...	1,478
Hersey-Detector..	...	...	...	...	...	1	8	23	4	36
Keystone	41	...	3	...	1	...	...	...	...	45
King.....	81	3	...	...	...	...	...	...	...	84
Lambert	780	86	8	...	1	...	...	...	...	875
Nash	543	113	56	...	2	...	...	...	...	714
Niagara	1	...	...	...	...	...	...	...	...	1
Thomson	5	19	2	...	...	...	...	...	...	26
Torrent .....	...	...	...	...	...	1	2	...	...	3
Trident	567	30	1	1	...	...	...	...	...	599
Union.....	28	7	...	1	...	...	...	...	...	36
Watch Dog	5	...	...	...	...	...	...	...	...	5
Worthington	58	3	39	42	34	5	3	...	...	184
Worthington-Disc	94	...	...	...	...	...	...	...	...	94
Total	6,975	2,141	470	82	97	16	24	29	4	9,838

New meters set	384
Meters out for repairs	977
Meters reset	914
Meters condemned	23
Meters condemned replaced with new	23
Meters repaired in cellars	314
Meters frozen and burst	141
Meters discontinued	12
Meters sold for private use.....	15

METERS.

The work of setting new meters and repairing old ones has increased materially the past year. In 1909, 317 new meters were set, against 384 the past year, and 703 were taken out for repairs, while 977 were out for repairs the past year. Of this number, 141 were frozen, 914 reset, 23 condemned, 23 replaced with new and 12 discontinued. 314 meters were also repaired in cellars.

SHOP.

The Shop continues to be a most valuable adjunct of the Department, whether in the matter of repairing old pumps, pipe, hydrants, valves, meters, etc., or making new well points, pump valves, brass cocks and other material necessary, either of brass or iron. During the year, 9,461 lbs. of stock was used in the manufacture of brass goods and 3,148 lbs. for iron castings.

STABLE.

In lieu of the purchase of additional horses last spring, by authority of your Honorable Board, two automobiles were purchased; one, a No. 16 Buick Touring Car to take the place of an electric Runabout used by the Superintendent for two years back, and a Buick Commercial Car or Truck. Both

machines have proved of great advantage in getting around the work of the Department. The Truck has been of especially good service, performing more work, without exaggeration, than any two horses could possibly do. Its availability for emergency work, on account of its readiness to start, was demonstrated on several occasions during the year. The purchase of another Truck the coming year would, I believe, be in the line of progressive and efficient management.

COLLECTION OF UNPAID WATER BILLS.

The ordinances specify in regard to collection of water bills, viz.: "In all cases of the non-payment of the water rates for sixty days after the same are due, the Superintendent shall cut off the supply, etc., etc."

At the hearing before the Committee on Legal Affairs of the Legislature, Water Works and other officials from Boston, Worcester, Lowell, New Bedford, Taunton, Springfield, Lawrence, Haverhill and various other cities and towns appeared in favor of bill to make water bills a lien on property. Many of them gave figures showing losses of thousands of dollars sustained by failure to collect unpaid water bills since the Law of 1896 went into effect, forbidding the refusal to let on water for subsequent owners. No remonstrants appeared at the hearing.

The argument that failure to collect was the fault of the Water Department does not hold good under present conditions. Years ago, before meters came into general use, when water bills were collected in advance, that argument was all right, but now many bills are rendered quarterly, and being based on meter readings, cannot obviously be rendered in advance. In fact, with the utmost promptness and diligence, a month must elapse before the meter bills become collectible, and in the meantime the ownership of the property is changed.

It should be borne in mind that the amount of the bills unpaid becomes a charge on the property of water takers who have already paid their bills so that it works an injustice in that

way. The making of water bills a lien would compel the property owner whose property got the benefit of the water service to pay the bill rather than the man who has honestly met his obligation.

Public owned Water Departments are not like private business ventures inasmuch as they have no right to discriminate against an applicant for water on account of credit or lack of credit. For that reason they are defenseless against real estate dealers or others who might desire to cheat the City. The Committee reported against the bill on the ground that the City had power to shut off the water in case of non-payment, and the exercise of that power was sufficient to insure payment, provided it was strictly enforced as it should be if the officials of the Water Department attended to their duty. Later in the year, the Department was severely criticized by the Lowell Board of Health for shutting off water on a piece of Front Street property, although it was absolutely necessary in order to compel payment of water bill, and was in perfect accord with the ordinances of the City and the laws of the State.

MISCELLANEOUS.

A 6" service was laid into Shedd Park for the purpose of flooding about five acres of land for skating. Water was let on to the land Saturday, December 6th, and was allowed to run for eight hours every day of the following week, using in all about 4,000,000 gallons. As you are aware, no money is received from the Park Department for water. They, however, paid the expense of laying the pipe, but refused to pay for the meter.

Previous to the sale of the old Morris Engine, all the composition metal that was accessible, such as the bucket and air pump, was saved and put in stock for foundry use. The contract with the Allis-Chalmers Co. for new pump was signed December 14th.

A 16" valve was set on Andover Street near easterly line of High Street. This valve was needed badly, for heretofore repairs on the Andover Street main or its branches called for shutting off water from East Merrimack and Willow Streets to Church Street Railroad Crossing.

A new derrick for unloading pipe from cars, etc., has been erected at the Pipe Yard, Cook Wells. The setting of this derrick is without guys or legs. The mast is 32 feet long, but it extends into the ground 12 feet through a 16" water pipe. It can be turned completely around so that a load can be picked up at any angle. The mast is Georgia Pine, 12" square, and the boom 8" square, of Georgia Pine. The Department lost a valuable horse in January from an illness pronounced by the Veterinary to be "Blackwater." A leak in Gorham Street opposite Blossom Street wrought considerable damage to street paving, the same being undermined from Blossom Street to Lincoln Street. Over a hundred loads of filling were required to fill in where the ground was washed away. A gang of ten men was also engaged several days in repairing the damage to the street.

A leak was discovered in the 24" force main on Sixth Street, between Myrtle and Beech Streets, on March 16th. When the pipe was uncovered, it was found to be split near where it entered the bell of the next pipe. An attempt was made to stop the leak by use of split sleeve, but this failed. Finally, the broken pipe for about four feet in length was cut out and a new piece inserted.

For carrying the 12" main over canal bridge on Bridge Street, the old wooden timbers were removed while bridge was being reconstructed and new steel "I" beams used instead. Twelve private sewers were flushed. Drinking fountains were cleaned once a month.

Thanking the President and members of the Water Board for their kind assistance and cordial co-operation during the year, this report is respectfully submitted.

ROBERT J. THOMAS,

Superintendent.

CAST IRON PIPE AND SPECIALS IN STOCK.

January 1, 1911.

Size in inches	4	6	8	10	12	16	20	24	30
Lengths of Pipe . .	34	74	176	11	39	7	10	15	5
Caps	3	4	5	3	3	2	2	2	2
Sleeves	7	.....	.....	2	7	1	3	3	3
$\frac{1}{4}$ Bends	2	2	4	1	3	.....	4	2	.....
$\frac{1}{8}$ Bends	2	10	8	.....	10	6	.....	.....	.....
$\frac{1}{16}$ Bends	11	7	.....	.....	.....	3	5	.....	2
Plugs	8	19	20	.....	5	2	3	2	1
Offsets	1	3	4	4	3	.....	.....	.....	.....
Gates	12	6	3	1	.....	.....	.....	.....	.....
Check Valves . . . . .	.....	1	1	.....	.....	.....	.....	.....	.....
Split Sleeves . . . . .	.....	.....	.....	.....	.....	1	1	.....	.....
Flange Pipe in feet . . . .	.....	36	.....	.....	7	62	.....	10	.....

150 ft. 4" Cast Iron Pipe in pieces, 300 ft. 6", 200 ft. 8", 75 ft. 10", 90 ft. 12", 25 ft. 16", 36 ft. 20", 34 ft. 24". 2 6" Flange Gates, 1 8" Flange $\frac{1}{4}$ Bend, 7 6", 2 16" x 12" Flange Branches, 2 20" x 12", 1 6" Flange Offset, 3 6" Flange Nipples, 8 6" Ludlow Hydrants, 1 6" Boston Post Hydrant, 1 6" Chapman Hydrant, 1 12" Lowrey Hydrant, 1 20" Lowrey Hydrant, 1 6" Michigan Hydrant, 6 Flush Hydrants, 40 ft. 6" Flange Pipe, 12 ft. 8", 3 6" Flange Elbows, 1 24" Flange $\frac{1}{4}$ Bend, 1 24" x 20" Flange Threeway, 16 $\frac{1}{2}$ ft. 10" Wrought Iron Pipe.

[illegible]

Report of the City Engineer.

OFFICE OF THE CITY ENGINEER.

LOWELL, MASS., January 1, 1911.

To the Lowell Water Board:

GENTLEMEN:—I have the honor to submit the Thirty-eighth Annual Report, for the year ending December 31, 1910.

PUMPAGE.

Total net pumpage for 1910	1,989,489,076 Gallons
Total net pumpage for 1909	1,909,792,832 Gallons
Increase in 1910	79,696,244 Gallons

CONSUMPTION.

Consumption for 1910	1,986,683,034 Gallons
Consumption for 1909	1,912,740,525 Gallons
Increase in 1910	73,942,509 Gallons

The maximum pumpage for any one day was on Tuesday, July 12th, viz.:—

At West Sixth Street Station.....	5,804,640 Gallons
At Cook Wells Station.....	2,205,440 Gallons
Total	8,010,080 Gallons

The maximum pumpage for one week was on the week of July 12th to July 18th, viz.:—

At West Sixth Street Station	31,083,660 Gallons
At Cook Wells Station	18,197,056 Gallons
Total	49,280,716 Gallons

High Service pumpage for 1910	65,724,624 Gallons
High Service pumpage for 1909	63,219,422 Gallons
Increase in 1910	2,505,202 Gallons
Cost of Low Service pumpage in 1910	\$16.54 per million gallons
Cost of Low Service pumpage in 1909	16.29 per million gallons
Increase in 1910	0.25 per million gallons
Cost of High Service pumpage in 1910	\$14.20 per million gallons
Cost of High Service pumpage in 1909	14.19 per million gallons
Increase in 1910 .....	.01 per million gallons
Cost of Low Service pumpage, exclusive of Cook Wells, in 1910	\$16.16 per million gallons
Total cost of High Service pumpage (cost of Low Service plus cost of High Service), exclusive of Cook Wells, in 1910	\$30.36 per million gallons
Total cost of High Service pumpage (cost of Low Service plus cost of High Service), exclusive of Cook Wells, in 1909	\$30.21 per million gallons
Increase in 1910	\$ 0.15 per million gallons

TABLE SHOWING QUANTITY PUMPED EACH MONTH AT THE SEVERAL STATIONS
DURING THE YEAR, 1910.

Months	PUMPING STATIONS											Grand Totals	Net Totals
	Driven Wells				West Sixth Street								
	Cook Wells	Pawtucketville Boulevard Wells			Totals	Net Totals	Worth'gton High Duty	Worth'gton Duplex	Morris	Totals Low Service	High Service		
		Lower	Upper	Totals									
Jan.		190,709,201		190,709,201	190,709,201		158,296,680	13,228,940	1,792,960	173,318,580	2,982,994	367,010,775	173,318,580
Feb.		169,487,631		169,487,631	169,487,631		156,686,400			156,686,400	2,289,378	328,463,409	156,686,400
March		171,659,678		171,659,678	171,659,678		156,750,120			156,750,120	2,341,752	330,751,550	156,750,120
April		171,498,371		171,498,371	171,498,371		155,609,280			155,609,280	2,566,102	329,673,753	155,609,280
May		181,654,515		181,654,515	181,654,515		161,846,640			161,846,640	3,143,140	346,644,295	161,846,640
June		165,408,195		165,408,195	165,408,195		158,384,160			158,384,160	5,192,096	328,984,451	158,384,160
July	50,766,720	152,916,729		152,916,729	203,683,449	50,766,720	77,274,000	74,676,210		151,950,210	9,333,920	365,017,579	202,716,930
Aug.	67,935,680	107,742,564		107,742,564	175,678,244	67,935,680		119,920,400		119,920,400	9,530,500	305,129,144	187,856,080
Sept.	55,901,440	96,620,392		96,620,392	152,521,832	55,901,440		104,287,410		104,287,410	8,089,550	264,898,792	160,188,850
Oct.	48,231,552	120,291,683		120,291,683	168,523,235	48,231,552		122,446,590		122,446,590	8,033,942	299,003,767	170,678,142
Nov.	9,001,024	123,603,472		123,603,472	132,604,496	9,001,024	47,624,400	85,442,820		133,037,220	8,255,968	273,927,684	142,068,244
Dec.		154,987,240		154,987,240	154,987,240		161,229,600	2,156,050		163,385,650	3,915,282	322,288,172	163,385,650
Totals	231,836,416	1,806,579,671		1,806,579,671	2,038,416,087	231,836,416	1,233,701,280	522,158,420	1,792,960	1,757,652,660	65,724,624	3,861,793,371	1,989,489,076

TABLE SHOWING SOURCE OF SUPPLY, QUANTITY PUMPED AND COST OF PUMPING AT THE SEVERAL STATIONS, DURING THE YEAR, 1910.

PUMPING STATIONS	SOURCE OF SUPPLY—WELL WATER				COST	
	345 Driven Wells at Pawtucket Boulevard	210 Driven Wells in Valley of River Meadow Brook	Distributing Mains of Low Service System	Totals in U. S. Gallons	Totals	Per Million Gallons
West Sixth Street. Low Service	1,757,652,660			1,757,652,660	\$16,676.54	\$ 9.49—
High Service			65,724,624	65,724,624	933.41	14.20 +
Cook Wells		231,836,416		231,836,416	4,495.79	19.39 +
*Lower Boulevard	1,806,579,671			1,806,579,671	11,730.93	6.49 +
Total pumpage						
Deduct { at Lower Boulevard	1,806,579,671			3,861,793,371	\$33,836.67	\$ 8.76
pumped { by High Service.			65,724,624	1,872,304,295		
Net pumpage						
Cost exclusive of High Service				1,989,489,076	\$33,836.67	\$17.01—
Cost exclusive of High Service and Cook Wells				1,989,489,076	32,903.26	16.54—
Total cost of High Service pumpage				1,757,652,660	28,407.47	16.16 +
				65,724,624	1,995.66	30.36 +

*Repumped at West Sixth Street.

The following tables, showing the performance of the engines, depth and quantity of water in the Beacon Street Reservoir, average temperature of the air and water at the Beacon Street Reservoir, and the average monthly and daily consumption of water, have been calculated and compiled from the records kept by the engineers and gatekeeper.

TABLE SHOWING WORK DONE WITH WORTHINGTON HIGH DUTY ENGINE, AT WEST SIXTH STREET PUMPING STATION, FOR EACH MONTH DURING THE YEAR, 1910.

MONTHS	No. of days pump- ing	Average No. of hours pumping per day	No. of hours pumping per month	No. of strokes made per month	Average No. of strokes made per minute	Average head including friction in feet	Quantity pumped per month in U. S. gallons	Average quantity pumped per day in U. S. gallons	No. gallons pumped into reservoir per pound. Total coal consumed	Duty in lbs. 1 foot high coal used in pumping only, no deduction for ashes or clinkers	Duty on total coal consumed, no deduction for ashes or clinkers
January ..	29	22-28	651-30	439,713	11.25	164.19	158,296,680	5,458,506	594	81,430,259	81,430,259
February ..	28	24-00	672-00	435,240	10.79	164.29	156,686,400	5,595,943	614	84,866,769	84,173,250
March	31	22-57	711-15	435,417	10.20	164.28	156,750,120	5,056,455	573	79,159,255	78,555,750
April	30	23-36	703-00	432,248	10.18	164.36	155,609,280	5,186,976	624	86,248,314	85,518,941
May	31	23-50	739-00	449,574	10.14	164.19	161,846,640	5,220,859	633	88,170,040	86,707,940
June	30	23-06	693-00	439,956	10.58	164.24	158,384,160	5,279,472	740	102,436,226	101,378,741
July	13	23-23	304-00	214,650	11.77	164.38	77,274,000	5,944,154	734	100,616,458	100,616,458
August .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
September ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
October .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
November ..	12	17-47	213-30	132,290	10.33	163.89	47,624,400	3,968,700	595	81,391,981	81,391,981
December ..	31	22-02	683-00	447,860	10.93	164.21	161,229,600	5,200,955	679	93,881,848	93,043,468
Totals and Averages	235	22-52	5,375-15	3,426,948	10.63	164.24	1,233,701,280	5,249,793	637	87,950,640	87,276,360

TABLE SHOWING WORK DONE WITH WORTHINGTON DUPLEX ENGINE, AT WEST SIXTH STREET PUMPING STATION, FOR EACH MONTH DURING THE YEAR, 1910.

MONTHS	No. of days pump- ing	Average No. of hours pumping per day	No. of hours pumping per month	No. of strokes made per month	Average No. of strokes made per minute	Average head, including friction in feet	Quantity pumped per month in U. S. gallons	Average quantity pumped per day in U. S. gallons	No. gallons of water pumped into reservoir per pound. Total coal consumed	Duty in lbs. 1 foot high coal used in pumping only, no deduction for ashes or clinkers	Duty on total coal consumed, no deduction for ashes or clinkers
January...	4	15-22	61-30	42,674	11.56	163.37	13,228,940	3,307,235	415	56,557,158	56,557,158
February											
March											
April											
May											
June											
July	19	20-17	385-30	240,891	10.41	162.96	74,676,210	3,930,327	526	71,463,803	71,463,803
August	31	21-00	651-00	386,840	9.90	162.82	119,920,400	3,868,400	570	77,429,071	77,429,071
September	28	21-12	593-30	336,411	9.45	162.76	104,287,410	3,724,550	487	67,298,031	66,188,938
October	31	20-40	640-30	394,989	10.28	162.63	122,446,590	3,949,890	503	69,252,556	68,234,297
November	21	20-30	430-30	275,622	10.67	162.95	85,442,820	4,068,703	433	59,472,562	58,893,608
December	2	5-37	11-15	6,955	10.30	163.00	2,156,050	1,078,025	415	56,482,974	56,482,974
Totals and Averages	136	20-24	2,773-45	1,684,382	10.12	162.82	522,158,420	3,839,400	500	68,520,444	67,928,156

TABLE SHOWING WORK DONE WITH MORRIS ENGINE (BEAM AND FLY WHEEL), AT WEST
SIXTH STREET PUMPING STATION, FOR EACH MONTH DURING THE YEAR, 1910.

MONTHS	No. of days pump- ing	Average No. of hours pumping per day	No. of hours pumping per month	No. of strokes made per month	Average No. of strokes made per minute	Average head, including friction in feet	Quantity pumped per month in U. S. gallons	Average quantity pumped per day in U. S. gallons	No. gallons of water pumped into reservoir per pound. Total coal consumed	Duty in lbs. 1 foot high coal used in pumping only, no deduction for ashes or clinkers	Duty on total coal consumed, no deduction for ashes or clinkers
January ..	2	5-30	11-00	5,603	8.49	163.40	1,792,960	896,480	425	57,989,227	57,989,227
February ..											
March ..											
April ..											
May ..											
June ..											
July ..											
August ..											
September ..											
October ..											
November ..											
December ..											
Totals and Averages ..	2	5-30	11-00	5,603	8.49	163.40	1,792,960	896,480	425	57,989,227	57,989,227

TABLE SHOWING WORK DONE WITH WORTHINGTON HIGH SERVICE ENGINE, AT WEST SIXTH STREET PUMPING STATION, FOR EACH MONTH DURING THE YEAR 1910.

MONTHS	No. of days pumping	Average No. of hours pumping per day	No. of hours pumping per month	No. of strokes made per month	Average No. of strokes made per minute	Average head, including friction in feet	Quantity pumped per month in U. S. gallons	Average quantity pumped per day in U. S. gallons	No. gallons of water pumped into reservoir per pound. Total coal consumed	Coal in pounds used when pumping
January	10	14-39	146-30	213,071	24.24	70.28	2,982,994	298,299	250	11,932
February . . .	8	14-07	113-00	163,527	24.12	70.28	2,289,378	286,172	250	9,154
March	8	16-07	129-00	167,268	21.61	70.28	2,341,752	292,719	250	9,365
April	10	12-30	125-00	183,293	24.44	70.28	2,566,102	256,610	250	10,264
May	10	14-00	140-00	224,510	26.73	70.28	3,143,140	314,314	250	12,570
June	17	20-49	354-00	370,864	17.46	87.95	5,192,096	305,417	250	20,768
July	31	24-00	744-00	670,280	15.02	93.38	9,383,920	302,707	250	37,536
August	31	24-00	744-00	680,750	15.25	93.38	9,530,500	307,435	250	38,122
September . .	30	24-00	720-00	577,825	13.38	93.38	8,089,550	269,652	250	32,358
October	31	24-00	744-00	573,853	12.86	93.38	8,033,942	259,159	250	32,136
November . . .	30	24-00	720-00	589,712	13.65	93.38	8,255,968	275,199	250	33,024
December . . .	12	19-30	234-00	279,663	19.92	77.97	3,915,282	326,274	250	15,661
Totals and Averages . . .	228	21-33	4,913-30	4,694,616	15.92	87.51	65,724,624	288,266	250	262,890

TABLE SHOWING WORK DONE WITH HOLLY HIGH DUTY ENGINE (CRANK AND FLY WHEEL), AT LOWER BOULEVARD PUMPING STATION, FOR EACH MONTH DURING THE YEAR, 1910.

MONTHS	No. of days pumping	Average No. of hours pumping per day	No. of hours pumping per month	No. of strokes made per month	Average No. of strokes made per minute	Average head, including friction in feet	Quantity pumped per month in U. S. gallons	Average quantity pumped per day in U. S. gallons	No. gallons of water pumped into conduit per pound. Total coal consumed	Duty in lbs. 1 foot high coal used in pumping only, no deduction for ashes or clinkers	Duty on total coal consumed, no deduction for ashes or clinkers
January ..	31	23-28	727-30	1,260,304	28.87	48.14	190,709,201	6,151,910	1,581	63,482,603	63,482,603
February .	28	24-00	672-00	1,120,061	27.78	49.91	169,487,631	6,053,130	1,013	42,282,961	42,181,874
March	31	23-00	713-00	1,134,415	26.52	45.75	171,659,678	5,537,409	1,317	50,275,209	50,275,209
April	30	23-52	716-00	1,133,349	26.38	45.94	171,498,371	5,716,612	1,041	39,883,651	39,883,651
May	31	24-00	744-00	1,200,466	26.89	45.71	181,654,515	5,859,823	1,190	45,400,347	45,400,347
June	30	23-01	690-30	1,093,102	26.38	47.55	165,408,195	5,513,606	1,593	63,213,739	63,213,739
July	31	22-22	693-30	1,010,552	24.29	41.33	152,916,729	4,932,798	1,314	45,298,323	45,298,323
August ...	31	21-01	651-30	712,018	18.21	31.04	107,742,564	3,475,567	1,179	30,535,415	30,535,415
September	28	21-43	608-00	638,517	17.50	31.16	96,620,392	3,450,728	1,185	30,802,106	30,802,106
October ..	31	21-02	652-00	794,949	20.32	34.87	120,291,683	3,880,377	1,231	35,826,471	35,826,471
November.	30	22-23	671-30	816,835	20.27	38.07	123,603,472	4,120,116	1,272	40,414,546	40,414,546
December	31	23-17	722-00	1,024,235	23.64	54.58	154,987,240	4,999,588	1,263	57,720,733	57,532,507
Totals and Averages .	363	22-46	8,261-30	11,938,803	24.09	42.88	1,803,579,671	4,976,804	1,249	44,711,010	44,686,278

TABLE SHOWING WORK DONE WITH DEANE ENGINES, AT COOK WELLS PUMPING STATION, FOR EACH MONTH DURING THE YEAR, 1910.

MONTHS	No. of days pump- ing	Average No. of hours pumping per day	No. of hours pumping per month	No. of strokes made per month	Average No. of strokes made per minute	Average head, including friction in feet	Quantity pumped per month in U. S. gallons	Average quantity pumped per day in U. S. gallons	No. gallons pumped into distributing mains per pound. Total coal consumed	Duty in lbs. 1 foot high total coal used, no deduction for ashes or clinkers
January	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	20	24-00	480-00	793,230	13.77	178.95	50,766,720	2,538,336	232	34,612,144
August	31	24-00	744-00	1,061,495	12.34	181.32	67,935,680	2,191,474	215	32,524,173
September	30	24-00	720-00	873,460	11.28	181.34	55,901,440	1,863,381	191	28,900,483
October	31	24-00	744-00	753,618	15.10	180.66	48,231,552	1,555,857	189	28,502,974
November	6	22-40	136-00	140,641	17.24	179.53	9,001,024	1,500,171	205	30,738,496
December	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals and Averages	118	23-56	2,824-00	3,622,444	12.98	180.65	231,836,416	1,964,715	206	31,017,507

TABLE SHOWING AMOUNT OF COAL USED FOR
 WORTHINGTON HIGH DUTY ENGINE AT
 PUMPING STATION, WEST SIXTH STREET,
 DURING THE YEAR 1910.

MONTHS	COAL CONSUMED			
	For starting fires, in pounds	When pumping, in pounds	For banking fires, in pounds	Total per month, in pounds
January		266,290		266,290
February	2,085	253,062		255,147
March	2,085	271,402		273,487
April	2,110	247,402		249,512
May	4,240	251,450		255,690
June	2,210	211,865		214,075
July		105,326		105,326
August				
September				
October				
November		80,006		80,006
December	2,120	235,280		237,400
Totals	14,850	1,922,083		1,936,933

TABLE SHOWING AMOUNT OF COAL USED FOR
 WORTHINGTON DUPLEX ENGINE AT PUMPING
 STATION, WEST SIXTH STREET, DURING
 THE YEAR 1910.

MONTHS	COAL CONSUMED			
	For starting fires, in pounds	When pumping, in pounds	For banking fires, in pounds	Total per month, in pounds
January		31,881		31,881
February				
March				
April				
May				
June				
July		142,069		142,069
August		210,387		210,387
September	2,126	210,426	1,400	213,952
October	2,080	239,902	1,500	243,482
November	1,920	195,315		197,235
December		5,191		5,191
Totals	6,126	1,035,171	2,900	1,044,197

TABLE SHOWING AMOUNT OF COAL USED FOR
MORRIS ENGINE AT PUMPING STATION, WEST
SIXTH STREET, DURING THE YEAR 1910.

MONTHS	COAL CONSUMED			
	For starting fires, in pounds	When pumping, in pounds	For banking fires, in pounds	Total per month, in pounds
January		4,215	.....	4,215
February	
March	
April	
May	
June	
July	
August	
September	
October	
November	
December	
Totals		4,215	.....	4,215

TABLE SHOWING AMOUNT OF COAL USED FOR
DEANE ENGINES AT PUMPING STATION, COOK
WELLS, DURING THE YEAR 1910.

MONTHS	COAL CONSUMED			
	For starting fires, in pounds	When pumping, in pounds	For banking fires, in pounds	Total per month, in pounds
January				
February				
March				
April				
May				
June				
July		218,980		218,980
August		315,980		315,980
September		292,640		292,640
October		255,050		255,050
November		43,860		43,860
December				
Totals		1,126,510		1,126,510

TABLE SHOWING AMOUNT OF COAL USED FOR
HOLLY ENGINE AT PUMPING STATION,
LOWER BOULEVARD, DURING THE
YEAR 1910.

MONTHS	COAL CONSUMED			
	For starting fires, in pounds	When pumping, in pounds	For banking fires, in pounds	Total per month, in pounds
January		120,655	.....	120,655
February	400	166,910	.....	167,310
March		130,325	.....	130,325
April		164,808	.....	164,808
May		152,588	.....	152,588
June		103,805	.....	103,805
July		116,402	.....	116,402
August		91,375	.....	91,375
September		81,547	.....	81,547
October		97,680	.....	97,680
November		97,140	.....	97,140
December	400	122,270	.....	122,670
Totals	800	1,445,505	.....	1,446,305

WEST SIXTH STREET PUMPING STATION, WORTH-
INGTON HIGH DUTY ENGINE, RUNNING
EXPENSES FOR THE YEAR 1910.

Pay of Engineers and Firemen	\$ 6,392.49
174 576-2000 tons of coal (New River, 1909), at \$4.1786	728.28
28 1775-2000 tons of coal (Screenings, 1910), at \$2.3213	67.06
26 693-2000 tons of coal (New River, 1910), at \$4.1786	110.09
40 988-2000 tons of coal (New River, 1910), at \$4.4641	180.77
179 734-2000 tons of coal (New River, 1910), at \$4.3214	775.12
47 640-2000 tons of coal (New River, 1910), at \$4.3036	203.65
232 805-2000 tons of coal (New River, 1910), at \$4.2232	981.48
133 361-2000 tons of coal (New River, 1910), at \$4.2093	560.59
106 361-2000 tons of coal (New River, 1910), at \$4.3303	459.79
529 14-100 gallons of cylinder oil, at \$0.3760	198.95
53 20-100 gallons of engine oil, at \$0.195	10.38
134 57-100 pounds of packing, at \$1.0868	146.25
257 90-100 pounds of cotton waste, at \$0.0949	24.47
352 pounds of grease, at \$0.1497	52.70
Repairs on engine	186.90
Repairs on boilers	218.67
Tools and stock	27.22
Sundries	61.84
Total	\$11,386.70

Cost of pumping water into reservoir per million gallons, \$9.23—.

Cost of pumping water one foot high per million gallons, \$0.05 62-100—.

WEST SIXTH STREET PUMPING STATION, WORTH-
INGTON DUPLEX ENGINE, RUNNING
EXPENSES FOR THE YEAR 1910.

Pay of Engineers and Firemen	\$2,700.52
94 501-2000 tons of coal (New River, 1909), at \$4.1786	393.83
15 1242-2000 tons of coal (Screenings, 1910), at \$2.3213	36.26
14 495-2000 tons of coal (New River, 1910), at \$4.1786	59.54
21 1797-2000 tons of coal (New River, 1910), at \$4.4641	97.76
96 1993-2000 tons of coal (New River, 1910), at \$4.3214	419.16
25 1179-2000 tons of coal (New River, 1910), at \$4.3036	110.13
125 1354-2000 tons of coal (New River, 1910), at \$4.2232	530.76
72 41-2000 tons of coal (New River, 1910), at \$4.2093	303.15
55 1595-2000 tons of coal (New River, 1910), at \$4.3303	241.62
223 54-100 gallons of cylinder oil, at \$0.376	84.05
22 47-100 gallons of engine oil, at \$0.195	4.38
43 42-100 pounds of packing, at \$0.8942	38.83
109 pounds of cotton waste, at \$0.0949	10.34
9 pounds of tallow, at \$0.08	0.72
Repairs on engine	100.09
Repairs on boilers	92.49
Tools and stock	11.50
Sundries	26.12
Total	\$5,261.25

Cost of pumping water into reservoir per million gallons, \$10.08—.

Cost of pumping water one foot high per million gallons, \$0.06 19-100—.

WEST SIXTH STREET PUMPING STATION, MORRIS
ENGINE, RUNNING EXPENSES FOR THE
YEAR 1910.

Pay of Engineers and Firemen	\$ 9.44
2 215-2000 tons of coal (New River, 1909), at \$4.1786	8.81
78-100 gallons of cylinder oil, at \$0.376	0.29
29 31-100 pounds of packing, at \$0.3261	9.56
40-100 pounds of cotton waste, at \$0.0949	0.04
Repairs on boilers	0.32
Tools and stock	0.04
Sundries	0.09
Total	\$28.59

Cost of pumping water into reservoir per million gallons, \$15.95—.

Cost of pumping water one foot high per million gallons, \$0.09 76-100—.

WEST SIXTH STREET PUMPING STATION, WORTH-
INGTON HIGH SERVICE ENGINE, RUNNING
EXPENSES FOR THE YEAR 1910.

Pay of Engineers and Firemen	\$339.93
23 1125-2000 tons of coal (New River, 1909), at \$4.1786	98.46
3 1811-2000 tons of coal (Screenings, 1910), at \$2.3213	9.07
3 1124-2000 tons of coal (New River, 1910), at \$4.1786	14.88
5 949-2000 tons of coal (New River, 1910), at \$4.4641	24.44
24 498-2000 tons of coal (New River, 1910), at \$4.3214	104.79
6 795-2000 tons of coal (New River, 1910), at \$4.3036	27.53
31 838-2000 tons of coal (New River, 1910), at \$4.2232	132.69
18 10-2000 tons of coal (New River, 1910), at \$4.2093	75.79
14 1740-2000 tons of coal (New River, 1910), at \$4.3303	64.39
28 14-100 gallons of cylinder oil, at \$0.3760	10.58
2 83-100 gallons of engine oil, at \$0.195	0.55
10 25-100 pounds of packing, at \$1.25	12.81
13 70-100 pounds of cotton waste, at \$0.0949	1.30
Repairs on boilers	11.47
Tools and stock	1.44
Sundries	3.29
 Total	 \$933.41

Cost of pumping water into reservoir per million gallons, \$14.20 +.

Cost of pumping water one foot high per million gallons, \$0.16 23-100—.

COOK WELLS PUMPING STATION, DEANE ENGINES,
RUNNING EXPENSES FOR THE YEAR 1910.

Pay of Engineers and Firemen	\$1,986.51
110 1030-2000 tons of coal (New River, 1909), at \$3.6339 ...	401.63
167 300-2000 tons of coal (New River, 1910), at \$3.8303	640.25
188 1970-2000 tons of coal (Pocohontas, 1910), at \$3.8303...	723.88
38 1140-2000 tons of coal (New River, 1910), at \$4.3300	167.01
58 70-2000 tons of coal (New River, 1910), at \$3.9554	229.55
50 gallons of kerosene oil, at \$0.10.....	5.00
105 29-100 gallons of cylinder oil, at \$0.365	38.42
40 70-100 gallons of engine oil, at \$0.195	7.94
79 75-100 pounds of packing, at \$1.2318	98.24
41 pounds of cotton waste, at \$0.0951	3.90
5 pounds of tallow, at \$0.07	0.35
Repairs on engines	112.85
Repairs on boilers	8.50
Tools and stock	26.48
Sundries	45.28
 Total	 \$4,495.79

Cost of pumping water into distributing mains per million gallons,
\$19.39 +.

LOWER BOULEVARD PUMPING STATION, HOLLY
ENGINE, RUNNING EXPENSES FOR THE
YEAR 1910.

Pay of Engineers and Firemen	\$ 7,772.00
419 1491-2000 tons of coal (Pocohontas, 1908), at \$4.4554...	1,870.12
145 1819-2000 tons of coal (New River, 1910), at \$4.2485 ...	619.89
158 1490-2000 tons of coal (New River, 1910), at \$4.3303 ...	687.42
200 gallons of kerosene oil, at \$0.10.....	20.00
613 8-100 gallons of cylinder oil, at \$0.379	232.35
150 17-100 gallons of engine oil, at \$0.203	30.47
50 25-100 pounds of packing, at \$0.7313	36.75
281 pounds of cotton waste, at \$0.0949	26.67
50 pounds of grease, at \$0.17	8.50
Repairs on engine	140.13
Repairs on boilers	12.62
Tools and stock	138.31
Sundries	135.70
Total	\$11,730.93

Cost of pumping water into conduit per million gallons, \$6.49 +.

RESERVOIR, BEACON STREET, 1910.

MONTHS	Depth in feet	Quantity in U. S. gallons	Temperature in Degrees	
			Of Water	Of Air
January	18.38	27,809,629	46.13	29.73
February	19.55	29,761,532	42.75	27.77
March	19.30	29,329,266	41.19	39.69
April	19.66	29,935,367	41.00	49.77
May	19.68	29,978,865	44.50	58.23
June	19.86	30,272,461	49.27	66.94
July	19.61	29,852,632	54.26	76.44
August	19.85	30,254,176	58.00	76.98
September	19.96	30,444,129	58.00	64.96
October	18.69	28,325,863	60.21	53.81
November	19.86	30,279,493	59.70	39.32
December	19.02	28,866,317	59.00	28.95

TABLE SHOWING THE AVERAGE MONTHLY AND
DAILY CONSUMPTION OF WATER FOR THE
YEAR 1910.

MONTHS	Gallons per Month	Gallons per day
January	171,360,273	5,527,751
February	156,263,169	5,580,827
March	158,435,429	5,110,820
April	154,347,202	5,144,907
May	160,857,254	5,188,944
June	159,514,342	5,317,145
July	202,152,903	6,521,061
August	188,701,272	6,087,138
September	166,902,620	5,563,421
October	162,269,029	5,234,485
November	143,623,075	4,787,436
December	162,256,466	5,234,080
Totals and Averages	1,986,683,034	5,442,967

The following table shows the average daily consumption of water, in gallons, for each month and each year since the installation of the system.

AVERAGE DAILY CONSUMPTION OF WATER IN GALLONS, FOR EACH MONTH AND YEAR FROM JANUARY, 1873, TO DECEMBER, 1910, INCLUSIVE.

YEARS	MONTHS												For the Year
	January	February	March	April	May	June	July	August	September	October	November	December	
1873	308,777	373,437	327,321	356,148	430,301	509,770	836,215	588,634	571,621	531,022	480,646	591,202	511,462
1874	633,840	667,770	638,840	609,470	708,760	919,830	977,360	895,820	880,880	760,560	750,060	890,220	789,206
1875	1,211,480	1,377,880	1,092,070	920,810	1,061,770	1,314,750	1,389,560	1,260,070	1,248,470	1,117,280	1,130,280	1,549,500	1,222,300
1876	1,484,980	1,527,830	1,325,790	1,073,602	1,275,180	1,554,764	2,011,640	1,662,020	1,539,326	1,348,380	1,193,376	1,805,810	1,484,882
1877	1,993,090	1,616,882	1,443,180	1,291,636	1,455,870	1,780,113	2,011,640	1,662,020	1,906,975	1,501,890	1,496,773	1,560,420	1,631,360
1878	2,038,990	1,894,890	1,683,690	1,287,310	1,624,140	1,760,330	2,262,500	1,813,970	1,878,048	1,643,400	1,515,424	1,804,850	1,784,960
1879	2,407,950	2,241,030	1,921,940	1,716,990	2,020,250	1,991,590	2,133,170	2,050,340	1,908,050	1,950,330	1,756,600	2,178,000	2,023,200
1880	1,977,760	2,144,660	1,933,610	1,839,800	2,223,670	2,486,780	2,438,080	2,492,330	2,408,940	2,268,430	2,229,350	2,574,600	2,252,197
1881	3,151,280	3,054,550	2,245,410	2,222,330	2,223,590	2,281,370	2,383,280	2,472,830	2,350,290	2,205,760	2,082,790	2,158,930	2,399,168
1882	2,883,560	2,809,540	2,263,290	2,163,990	2,203,580	2,774,220	3,220,640	3,220,680	2,651,590	2,434,430	2,211,800	2,629,940	2,862,710
1883	3,341,650	3,068,900	2,893,330	2,436,600	2,730,670	3,197,920	2,988,780	3,220,780	2,910,440	2,408,160	2,374,830	3,063,920	3,063,920
1884	3,600,150	3,032,120	3,025,910	2,513,700	2,620,820	3,127,330	3,185,420	3,166,500	3,111,910	2,806,130	2,648,010	3,334,160	3,016,040
1885	4,137,730	4,924,980	3,907,890	3,103,350	2,996,500	3,443,140	3,545,920	3,303,190	3,243,620	3,567,880	3,125,447	3,547,620	3,563,220
1886	4,527,610	4,927,900	4,213,570	3,490,590	3,416,380	3,903,860	4,084,170	3,922,610	3,693,650	3,440,450	3,516,680	4,408,650	3,957,650
1887	5,470,290	4,762,659	4,276,024	3,707,956	4,222,327	4,300,546	4,522,064	4,320,440	4,200,049	3,894,148	3,612,885	4,480,818	4,319,164
1888	6,611,570	6,707,935	5,305,426	4,213,317	4,241,156	4,836,489	4,868,093	4,646,388	4,367,616	4,378,843	4,512,348	5,131,297	4,981,118
1889	4,889,917	5,495,132	4,344,194	4,139,759	4,516,328	4,738,913	4,919,008	4,769,079	4,668,705	4,349,478	4,266,827	4,560,882	4,633,165
1890	5,034,449	5,317,487	5,037,524	4,697,240	4,692,172	5,234,919	6,101,724	5,533,936	5,671,520	5,380,569	5,074,790	6,674,367	5,373,536
1891	6,346,284	6,614,450	6,083,591	5,292,180	5,530,909	6,076,131	6,191,190	6,467,698	6,179,573	5,747,054	5,661,719	5,823,698	5,919,692
1892	5,911,281	8,818,300	6,469,630	5,340,879	5,241,053	6,371,317	6,742,737	6,460,251	6,336,374	6,290,239	5,613,792	5,899,565	6,074,263
1893	8,659,870	8,888,586	6,998,144	5,646,919	5,910,870	6,330,711	6,796,530	6,746,621	6,194,761	6,415,510	5,990,053	7,325,056	6,816,943
1894	7,268,744	7,817,660	6,580,717	6,014,810	6,154,297	6,915,305	7,104,453	6,571,033	6,190,377	5,821,950	5,909,004	6,550,504	6,816,170
1895	7,280,484	8,318,300	6,469,630	6,034,913	6,452,212	7,033,375	7,032,587	7,343,446	7,153,030	6,674,267	6,249,076	7,119,614	6,932,092
1896	8,347,435	7,958,693	6,645,162	6,723,680	7,034,685	7,093,227	7,407,605	7,058,722	6,353,958	6,301,085	5,956,262	6,814,985	6,933,308
1897	7,422,486	7,050,337	6,498,264	6,187,508	6,401,053	6,296,706	6,885,239	6,353,958	6,348,176	6,300,619	6,128,699	6,965,349	6,794,364
1898	7,769,816	7,244,795	6,232,698	6,202,828	6,395,113	8,508,104	7,143,828	6,970,648	6,743,119	6,300,619	6,128,699	6,965,349	6,794,364
1899	7,417,719	8,114,248	6,803,182	6,554,963	6,551,731	8,508,104	8,664,229	7,196,127	7,002,017	7,037,015	6,797,952	7,858,218	7,286,205
1900	7,511,163	8,127,419	8,024,115	7,665,888	7,734,911	8,037,993	8,696,110	8,268,526	8,138,836	7,037,015	7,292,997	7,844,543	7,893,356
1901	8,266,601	9,055,112	8,260,895	6,914,082	6,580,172	7,083,342	7,263,332	6,766,772	6,514,839	6,183,286	5,748,730	6,197,726	7,059,631
1902	6,171,220	6,114,804	5,651,749	5,446,046	5,797,401	6,217,117	6,083,104	5,963,910	5,461,552	5,107,818	4,771,831	5,969,016	5,729,325
1903	6,160,966	6,054,616	5,115,198	5,147,423	5,581,932	5,124,402	5,563,775	5,018,208	4,936,025	4,809,428	4,613,355	5,112,584	5,266,823
1904	6,655,276	7,188,622	5,554,904	4,791,851	5,220,707	5,562,331	5,576,895	5,136,152	5,417,024	4,940,185	4,580,887	5,257,670	5,485,323
1905	5,777,996	6,857,608	5,255,104	5,316,825	5,283,217	5,152,313	5,555,262	5,819,160	5,025,355	5,447,880	4,983,105	5,034,701	5,474,202
1906	4,834,565	5,142,265	5,001,817	4,950,731	5,025,778	5,074,773	5,391,923	5,440,761	5,486,986	4,980,724	4,398,655	5,269,259	5,083,856
1907	5,812,515	6,967,163	5,996,990	5,089,614	5,485,391	5,640,334	6,130,861	6,046,145	5,414,610	5,198,286	4,492,525	4,587,374	5,526,118
1908	4,892,197	6,303,981	5,126,110	4,847,459	4,879,046	5,597,233	6,130,861	5,027,742	5,420,566	5,647,718	4,574,252	4,607,084	5,250,367
1909	4,994,704	5,025,674	4,781,957	4,846,081	4,947,820	5,504,361	6,114,545	6,167,967	5,470,110	5,137,479	4,863,788	5,000,414	5,240,385
1910	5,527,751	5,580,827	5,110,820	5,144,907	5,188,944	5,317,145	6,521,061	6,087,138	5,563,421	5,234,485	4,787,436	5,234,080	5,442,967

SUMMARY OF STATISTICS.

FOR THE YEAR ENDING DECEMBER 31, 1910.

In form recommended by the New England Water Works Association.

LOWELL WATER WORKS.

LOWELL, MIDDLESEX COUNTY, MASSACHUSETTS.

GENERAL STATISTICS.

Population by census of 1910, 106,294.

Date of construction, 1870 to 1873.

Date of construction, High Service, 1881.

Date of construction, Driven Wells, 1893 to 1903.

By whom owned: The City of Lowell.

Source of supply: Two hundred ten (210) driven wells in the valley of River Meadow Brook, and three hundred forty-five (345) driven wells at Pawtucket Boulevard.

Mode of supply: Pumping to reservoir and pumping direct.

PUMPING STATISTICS.

1. Builders of Pumping Machinery.

AT WEST SIXTH STREET STATION.

*One engine, capacity 5,000,000 gallons in 24 hours, Henry G. Morris.

One engine, capacity 5,000,000 gallons in 24 hours, Henry R. Worthington.

One engine, capacity 500,000 gallons in 24 hours, Henry R. Worthington.

One engine, capacity 10,000,000 gallons in 24 hours, Henry R. Worthington.

*Taken down and broken up December, 1910.

AT COOK WELLS STATION, TEMPORARY PUMPS.

One engine, capacity 3,000,000 gallons in 24 hours, The Deane Steam Pump Co.

One engine, capacity 3,000,000 gallons in 24 hours, The Deane Steam Pump Co.

AT LOWER BOULEVARD STATION.

One engine, capacity 3,000,000 gallons in 24 hours, Knowles Steam Pump Works.

One engine, capacity 8,000,000 gallons in 24 hours, Holly Manufacturing Co.

AT UPPER BOULEVARD STATION, TEMPORARY PUMPS.

One engine, capacity 3,000,000 gallons in 24 hours, Henry R. Worthington.

One engine, capacity 3,000,000 gallons in 24 hours, Henry R. Worthington.

2. Description of fuel use

- a. Kind, bituminous.
- b. Brand of coal, Pocohontas and New River.
- c. Average price of coal per gross ton, delivered, \$4.68—.
- d. Percentage of ash, 6.95.
- e. Wood, price per cord.

3. Coal consumed for the year, 5,821,050 pounds.
4. (Pounds of wood) $\div 3$ = equivalent amount of coal = none.
5. Total equivalent coal consumed for the year = (3) + (4),
5,821,050 pounds.
6. Total pumpage for the year, 3,861,793,371 gallons.
7. Average static head against which pumps work, 103.14 feet.
8. Average dynamic head against which pumps work, 106.97 feet.
9. Number of gallons pumped per pound of equivalent coal
(5), 663.
10. Duty = $\frac{\text{Gallons pumped (6)} \times 8.34 \text{ lbs.} \times 100 \times \text{dynamic head (8)}}{\text{Total fuel consumed (5)}}$
= 59,185,575.
Cost of pumping figured on pumping station expenses,
viz.: \$33,836.67.
11. Per million gallons pumped, \$8.76 +
12. Per million gallons raised one foot (dynamic), \$0.0819-100—.

FINANCIAL STATISTICS.

RECEIPTS.		EXPENDITURES.	
Balance from 1909		Water Works Maintenance:	
From Water Rates:		A A. Operation (management and repairs)	\$137,591 85
A. Fixture rates	\$ 22,166 34	C C. Total maintenance	\$137,591 85
B. Meter rates	173,019 54	D D. Interest	44,319 62
C. Total from consumers		(C C + D D)	180,881 85
F. For street watering	1,800 00	E E. Payment of loans	15,200 00
G. For public buildings	3,525 67	F F. Sinking Fund	16,000 00
J. Total from municipal departments.....			
K. From tax levy	5,325 67	Water Works Construction:	
M. From other sources	16,000 00	G G. Extension of mains	14,101 65
	23,233 89	H H. Extension of services	6,790 26
		K K. Total construction	20,891,91
		L L. Unclassified expenses	3,231 07
		Balance	3,517 63
N. Total	\$240,752 08	N. Total	\$240,752 08

O. Net cost of works to date.....	\$3,172,755 53
P. Bonded debt at date	1,091,200 00
Q. Value of Sinking Fund to date	625,373 04
R. Average rate of interest, four per cent.	

STATISTICS OF CONSUMPTION OF WATER.

1. Estimated total population at date, 106,294.
2. Estimated population on lines of pipe, 106,294.
3. Estimated population supplied, 106,294.
4. Total consumption for the year, 1,986,683,034 gallons.
5. Passed through meters, 1,045,885,710 gallons.
6. Percentage of consumption metered, 52.6.
7. Average daily consumption, 5,442,967 gallons.
8. Gallons per day to each inhabitant, 51.21.
9. Gallons per day to each consumer, 51.21.
10. Gallons per day to each tap, 436.
11. Cost of supplying water, per million gallons, figured on total maintenance (item C C), \$69.26.
12. Total cost of supplying water, per million gallons, figured on total maintenance + interest on bonds, \$91.05.

STATISTICS RELATING TO DISTRIBUTION SYSTEM.

MAINS.

1. Kind of pipe, cast iron.
2. Sizes, 4 inches to 30 inches.
3. Extended 9,825 feet during the year.
5. Total now in use, 145.30 miles.
8. Length of pipe less than 4 inches diameter, 2 miles, more or less.
9. Number of hydrants added during the year (public and private), 19.
10. Number of hydrants (public and private) now in use, 1,340.
11. Number of stop gates added during the year, 63.
12. Number of stop gates now in use, 1,621.
13. Number of stop gates smaller than 4 inches, 32.
14. Number of blow-offs, 34.
15. Range of pressure on mains, 17 lbs. to 72 lbs., low service.

SERVICES.

16. Kind of pipe, lead, lead-lined iron, iron and tin-lined iron.
 17. Sizes, $\frac{5}{8}$ " to 2".
 18. Extended 8,831 feet.
 20. Total now in use, 93.64 miles.
 21. Number of service taps added during the year, 228.
 22. Number now in use, 12,494.
 23. Average length of service, 38.7 feet.
 24. Average cost of service for the year, \$29.78.
 25. Number of meters added, 384.
 26. Number now in use, 9,838.
 27. Percentage of services metered, 78.7.
 28. Percentage of receipts from metered water ($B \div C$), 88.64.
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The State Board of Health has made analyses of water each month from the Merrimack River (for record only), wells at Pawtucket Boulevard and Low Service Reservoir, a record of which is annexed.

Respectfully submitted,

GEORGE BOWERS,

City Engineer.

COMMONWEALTH OF MASSACHUSETTS.—STATE BOARD OF HEALTH.
LOWELL WATER ANALYSIS.—Merrimack River. (Parts in 100,000.)

No.	Date of		Appearance			Odor		Residue on Evaporation			Ammonia				Chlorine		Nitrogen as		Hardness	Iron	Oxygen Consumed
	Collection	Examination	Turbidity	Sediment	Col'r	Cold	Hot	Total	Loss on Ignition	Fixed	Free	Total	In Solution	In Suspension			Nitrates	Nitrites			
	1910																				
83,300	Jan. 19 21		slight	slight	.32	faintly unpleasant	distinctly unpleasant	6.75	2.20	4.55	.0290	.0266	.0238	.0028	.49	.0040	.0004		1.7	.0500	.78
83,796	Feb. 16 18		slight	slight	.35	unpleasant	unpleasant	4.85	2.00	2.85	.0054	.0168	.0138	.0030	.27	.0040	.0002		1.6	.0280	.47
84,315	March 23 24		slight	slight	.40	v. faintly unpleasant	faintly unpleasant	3.90	1.80	2.10	.0018	.0160	.0128	.0032	.18	.0040	.0002		1.3	.0230	.52
84,742	April 20 21		slight	cons.	.46	faintly unpleasant	distinctly unpleasant	3.90	1.50	2.40	.0076	.0186	.0148	.0038	.28	.0040	.0003		1.3	.0460	.75
85,239	May 18 19		slight	slight	.45	v. faintly unpleasant	faintly unpleasant	3.55	1.55	2.00	.0068	.0182	.0128	.0054	.28	.0030	.0001		2.0	.0400	.71
85,893	June 22 24		slight	cons.	.52	faintly unpleasant	distinctly unpleasant	3.50	1.55	1.95	.0132	.0188	.0172	.0016	.21	.0020	.0003		0.8	.0430	.72
86,478	July 20 21		slight	slight	.36	v. faintly vegetable	faintly vegetable	4.50	1.90	2.60	.0252	.0182	.0144	.0038	.35	.0040	.0005		1.1	.0660	.54
87,160	August 23 24		slight	cons.	.35	unpleasant	unpleasant	5.15	1.90	3.25	.0088	.0248	.0188	.0060	.38	.0040	.0003		1.3	.0580	.66
87,999	Sept. 28 29		v. slight	slight	.33	faintly unpleasant	distinctly unpleasant	5.35	2.20	3.15	.0168	.0192	.0154	.0038	.38	.0030	.0004		1.7	.0500	.76
88,486	Oct. 19 21		v. slight	slight	t'b'd .35	faintly vegetable	distinctly veg. and	6.80	2.00	4.80	.0236	.0212	.0200	.0012	.34	.0030	.0020		1.7	.0700	.79
89,420	Nov. 22 23		v. slight	v. slight	.30	v. faintly unpleasant	faintly unpleasant	5.35	1.15	4.20	.0576	.0302	.0218	.0084	.43	.0050	.0005		1.7	.0350	.63
89,938	Dec. 21 22		v. slight	slight	t'b'd .25	faintly unpleasant	distinctly unpleasant	6.35	2.75	3.60	.0288	.0232	.0200	.0032	.48	.0040	.0003		2.0	.0550	.82

COMMONWEALTH OF MASSACHUSETTS.—STATE BOARD OF HEALTH.

LOWELL WATER ANALYSIS.—Boulevard Wells. (Parts in 100,000.)

No.	Date of		Appearance			Odor		Residue on Evaporation			Ammonia				Nitrogen as		Hardness	Iron	Oxygen Consumed
	Collection	Examination	Turbidity	Sediment	Col'r	Cold	Hot	Total	Loss on Ignition	Fixed	Free	Total	In Solution	In Suspension	Nitrates	Nitrites			
83,301	1910 Jan. 19 21		slight iron	cons. iron	.33	none	none	5.40	.....	.....	.0328	.0066	.....	.....	.0050	.0001	2.6	.1600	.....
83,797	Feb. 16 18		slight iron	cons. iron	fil. .27	none	none	5.90	.....	.....	.0344	.0054	.....	.....	.0110	.0001	2.6	.2100	.....
84,316	March 23 24		slight iron	cons. iron	.43	none	faintly earthy	6.60	.....	.....	.0360	.0056	.....	.....	.0120	.0002	2.6	.1900	.....
84,743	April 20 21		v. slight	slight	.17	none	none	5.30	.....	.....	.0106	.0042	.....	.....	.0120	.0000	2.6	.0400	.....
85,240	May 18 19		slight iron	slight iron	fil. .35	none	v. faintly unpleasant	4.80	.....	.....	.0296	.0042	.....	.....	.0080	.0001	2.0	.1600	.....
85,894	June 22 24		slight iron	cons. iron	.35	none	none	4.90	.....	.....	.0280	.0078	.....	.....	.0080	.0003	2.0	.1000	.....
86,479	July 20 21		none	none	.05	none	none	4.10	.....	.....	.0352	.0022	.....	.....	.0000	.0000	1.0	.0120	.....
87,161	August 23 24		decided iron	cons. iron	t'b'd .50	none	none	5.70	.....	.....	.0336	.0036	.....	.....	.0020	.0000	1.8	.1600	.....
88,000	Sept. 28 29		slight iron	cons. iron	t'b'd .37	none	v. faintly unpleasant	4.70	.....	.....	.0392	.0076	.....	.....	.0050	.0000	2.0	.2200	.....
88,487	Oct. 19 21		none	v. slight	.10	none	none	4.40	.....	.....	.0570	.0042	.....	.....	.0000	.0000	1.7	.0200	.....
89,421	Nov. 22 23		slight iron	cons. iron	poor color .40	v. faintly unpleasant	faintly unpleasant	6.30	.....	.....	.0376	.0032	.....	.....	.0040	.0002	2.0	.1600	.....
89,939	Dec. 21 22		slight iron	cons. iron	fil. .24	none	none	5.30	.....	.....	.0294	.0046	.....	.....	.0090	.0000	2.2	.1500	.....

COMMONWEALTH OF MASSACHUSETTS.—STATE BOARD OF HEALTH.
LOWELL WATER ANALYSIS.—Reservoir. (Parts in 100,000.)

No.	Date of		Appearance			Odor		Residue on Evaporation			Ammonia			Chlorine	Nitrogen as		Hardness	Iron	Oxygen Consumed
	Collection	Examination	Turbidity	Sediment	Color	Cold	Hot	Total	Loss on Ignition	Fixed	Free	Albuminoid							
												In Solution	In Suspension						
83,349	1910 Jan. 22	25	slight iron	slight iron	.28	none	none	7.20	.....	.....	.0336	.0034	.....	.40	.0060	.0002	2.6	.0750	.....
83,798	Feb. 16	18	slight iron	slight iron	fil. .25	none	none	7.00	.....	.....	.0320	.0044	.....	.43	.0150	.0001	2.6	.0880	.....
84,317	March 23	24	decided iron	slight iron	t'b'd .30	none	v. faintly unpleasant	7.20	.....	.....	.0256	.0068	.....	.40	.0200	.0003	2.6	.0750	.....
84,744	April 20	21	slight milky	v. slight	.16	none	none	5.30	.....	.....	.0104	.0060	.....	.36	.0240	.0000	2.6	.0400	.....
85,241	May 18	19	slight iron	v. slight iron	fil. .18	none	none	4.10	.....	.....	.0206	.0064	.....	.34	.0160	.0002	2.2	.0600	.....
85,895	June 22	24	slight	slight	.22	none	none	5.70	.....	.....	.0210	.0074	.....	.31	.0120	.0003	1.8	.0390	.....
86,480	July 20	21	slight	slight	.20	none	none	5.50	.....	.....	.0152	.0068	.....	.28	.0160	.0003	1.8	.0500	.....
87,162	August 23	24	slight	v. slight	.20	none	none	5.50	.....	.....	.0092	.0068	.....	.29	.0080	.0002	1.8	.0280	.....
88,001	Sept. 28	29	decided iron	slight iron	.34 t'b'd	none	none	6.10	.....	.....	.0248	.0064	.....	.37	.0110	.0001	2.2	.0950	.....
88,488	Oct. 19	21	slight iron	slight iron	fil. .27	faintly unpleasant	faintly unpleasant	7.20	.....	.....	.0300	.0098	.....	.32	.0100	.0003	2.5	.1320	.....
89,422	Nov. 22	23	slight	slight	poor color .38	none	none	5.60	.....	.....	.0320	.0110	.....	.38	.0100	.0003	2.2	.1100	.....
89,940	Dec. 21	22	slight iron	slight iron	fil. .28	none	none	5.90	.....	.....	.0276	.0064	.....	.40	.0110	.0003	2.2	.1000	.....

LOW SERVICE—WATER PIPE LAID IN 1910.

Street	Location (* Indicates for Grade Crossings)	Length of Pipe in Feet					Total
		4"	6"	8"	10"	12"	
Aberdeen	Extended southerly from Methuen St.		171.5				171.5
Anne	3 hydrants changed from west side to east side ..		61.				61.
Appleton	Extended westerly from Central St. to Gorham St.				193.5		193.5
Autumn	Extended southerly from London St. to connect with 6" pipe		147.				147.
Bennett	Extended southerly from Pine St.		227.5				227.5
Bond	Extended easterly from Highland Ave.		158.5				158.5
*Boston Rd.	From new R. R. bridge to Foundry St. (replacing 6" pipe				309.5		309.5
Brookside	Extended northerly to hydrant		9.5				9.5
Clark	Extended westerly from Common Ave.		74.5				74.5
Common Ave.	Extended westerly from Salem St. to Clark St.		309.				309.
Crawford	Extended easterly from Fourth Ave. to connect with 6" pipe		204.5				204.5
Cumberland Rd. ..	Extended northerly from Fisher St.		175.5				175.5
Duren Ave.	Extended southerly		118.5				118.5
Dutton	Fire service and supply for Y. M. C. A. Building	26.					26.
Florence Ave	Extended southerly to connect with Pine St.			319.			319.
*Foundry	Extended westerly from Plain St. to Boston Rd.			240.			240.
*Foundry	Extended westerly across Boston Rd.				24.		24.
*Foundry	Extended westerly from Boston Rd. to Marshall Rd.			136.			136.

LOW SERVICE—WATER PIPE LAID IN 1910.

CONTINUED.

STREET	LOCATION (*Indicates for Grade Crossings)	Length of Pipe in Feet					Total
		4"	6"	8"	10"	12"	
Fourth Ave.	Extended northerly from Mt. Hope St. to connect with Avon St.			211.			211.
French	Fire service, Merrimack Sq. Theatre		46.				46.
George.....	Extended northerly from Tyler St. across Church St.		285.				285.
Greendale	Extended southerly		112.				112.
Harris Ave.	Extended southerly from Shaw St. to south of D St. oval			703.			703.
Holden	Extended northerly from Westford St.		199.				199.
Hoyt Ave.	Extended to hydrant at end of 6" pipe		6.5				6.5
Jackson	Fire service and supply, Lowell Storage Warehouse Co.	20.					20.
*Lincoln	Extended easterly from Main St. to Autumn St.		9.5			853.5	863.
Litchfield Ter. ...	Extended easterly from Walker St., and southerly.		260.				260.
Lundberg	Extended easterly from O'Connell St. to Potter St.			176.			176.
Maple	Extended westerly from Autumn St. to angle in street		234.				234.
McIntire	Extended southerly from Middlesex St., to connect with 4" pipe		41.	6.			47.
Melvin	Extended northerly and easterly		73.5				73.5
Moody	Fire service and supply, Lowell Textile School extended easterly from center of area to new building		70.				70.
Moore	Fire service and supply, Sacred Heart School	17.					17.
Newhall	Extended easterly to near Hale's Brook			224.			224.

LOW SERVICE—WATER PIPE LAID IN 1910.
CONTINUED.

STREET	LOCATION (*Indicates for Grade Crossings)	Length of Pipe in Feet					Total
		4"	6"	8"	10"	12"	
Perkins	Extended easterly from Tucker St.		12.				12.
Perry	Extended southerly from Andover St. to connect with 8" pipe			370.			370.
Perry	Extended to hydrant east side street		22.				22.
Phoenix	Extended easterly to hy- drant east side street		25.				25.
*Plain	Extended easterly from Main St. across R. R. bridge. (Replacing 6" pipe)				160.		160.
*Quebec	Extended northerly across Lincoln St.		43.				43.
Rockingham.....	Extended northerly to near Roper St. Extension		70.				70.
Rogers.....	Service extended to Shedd Playground with meter		141.5				141.5
Shaw	Extended from Chemsford St. to Smith St. (Replac- ing 6" pipe)					736.	736.
Shaw	Extended from Smith St. to Powell St.					180.	180.
Shaw	Extending westerly from Wilder St. to Harris Ave.				265.		265.
Sidney	Extended southerly to hy- drant		66.				66.
So. Wilder	Extended northerly		60.				60.
Stackpole	Extended southerly to hy- drant		14.				14.
Thorndike.....	Service, Middlesex County Jail	230.					230.
Tucker	Extended northerly to Per- kins St.		117.5				117.5
Victor	Extended southerly from Ennell St. to Boisvert St.			384.5			384.5
Walker	Fire service and supply, Lamson Store Service Co.	23.	514.				537.

LOW SERVICE—WATER PIPE LAID IN 1910.

CONTINUED.

STREET	LOCATION (*Indicates for Grade Crossings)	Length of Pipe in Feet					Total
		4"	6"	8"	10"	12"	
Webber	Extended southerly from Middlesex St. to hydrant		6.5	487.	.....	.....	493.5
White	Extended southerly to connect at Mt. Hope St.		269.	.....	.....	.....	269.
White	Extended easterly from Moody St. to Dracut St. (Replacing 108 ft. 6" pipe) .....		.....	256.	.....	.....	256.
Wilder	Extended southerly from Pawtucket St. to connect with 6" pipe		191.	.....	.....	.....	191.
Wilder	Extended to east side street for hydrant. (South of Shaw St.)		13.	.....	.....	.....	13.
		316.	4,558.	35,125.	952.	1,769.5	11,108.

LOW SERVICE—WATER PIPE REMOVED IN 1910.

STREET	LOCATION (*Indicates for Grade Crossings)	Length of Pipe in Feet					Total
		4"	6"	8"	10"	1	
*Boston Rd.....	From Plain St., southerly ..	.....	220.	351.	.....	.....	571.
*Lincoln	From Main St. to Autumn St. (Relaid after bridge was built) .....	.....	.....	.....	.....	853.	853.
*Marshall Rd.....	From Plain St. to Foundry St. ....	.....	190.	.....	.....	.....	190.
*Plain	From Main St. to Boston Rd. ....	.....	163.	.....	.....	.....	163.
Shaw	From Chelmsford St. to Smith St. (Replaced by 12" pipe) .....	.....	736.	.....	.....	.....	736.
Varnum Ave.	From Mammoth Rd. to first hydrant.....	.....	.....	196.	.....	.....	196.
*Walker	From 14 ft. north north line West Adams St. to 68 ft. north north line Waugh St. (60 ft. left in ground under R. R. tracks) .....	.....	388.	.....	.....	.....	388.
*Western Ave.....	From School St. to east of west end of B. & M. Freight House .....	.....	.....	9.	582.	.....	591.
White	From Dracut St. westerly. (Replaced by 8" pipe) ...	.....	108.	.....	.....	.....	108.
			1,805.	556.	582.	853.	3,796.

HIGH SERVICE--WATER PIPE LAID IN 1910.

STREET	LOCATION	Length of Pipe in Feet					Total
		4"	6"	8"	10"	12"	
Beacon	Extended southerly		92.5				92.5
Clark Rd. North ..	Extended northerly from from Andover St. to Mans- field St.		29.	315.			344.
E. Merrimack.....	Extended northerly from Andover St. to River Cliff Rd.		31.	620.			651.
Glenwood	Extended easterly from Wentworth Ave. to But- man Rd.		503.				503.
Harland Ave.	Extended northerly from Andover St.		6.5	206.5			213.
Holyrood Ave. ...	Extended northerly		30.				30.
Mansur	Extended easterly from Wentworth Ave. to con- nect with 6" pipe.....		180.5				180.5
Summit.....	Extended easterly from Fair- mount St.		237.				237.
Wentworth Ave. .	Extended southerly to con- nect across Mansur St. ..		312.				312.
			1,421.5	1,141.5			2,563.

LOW SERVICE LIST OF HYDRANTS SET DURING THE YEAR 1910.

Street	LOCATION (*Indicates for Grade Crossings)
Anne	Location changed from west side to east side, 7 ft. south of French St
Anne	Location changed from west side to east side, 280 ft. south of French St
Anne	Location changed from west side to east side, 555 ft. south of French St
Bartlett.....	North side, 59 ft. west of east end of street
Bennett.....	West side, 212 ft. south of south line of Pine St.
Brookside	East side, 183 ft. north of angle
Duren Ave.	East side, 218 ft. south of south line of Middlesex St.
Greendale Ave. ...	West side, moved from 271 ft. south of south line Hale St. to 383 ft south of same
Harris Ave.	West side, 4 ft. north of north line of D St.
Harris Ave.	West side, 209 ft. north of north line of B St.
Hoyt Ave.	South side, 128 ft. west of west line of Wellington Ave.
*Lincoln	South side, 40 ft. east of Railroad bridge
Middlesex	North side, 61 ft. west of west line Grand St.
Newhall	North side, 11 ft. west of west side bridge over Hale's Brook
Perry	East side, 5 ft. south of south line Andover St.
Perry	East side, 318 ft. north of north line Sherman St.
Phoenix	East side, 1 ft. north of north line P. R. Warren Co. large buildings
Plain ³	North side, 222 ft. west of north line Foundry St.
Sidney	West side, 10 ft. north of north line B. & M. R. R.
Stackpole	South side, 638 ft. east of east line Alder St.
*Walker	West side, moved from opposite north line of Waugh St. to 68 ft. north of north line same
Webber	West side, 469 ft. south of south line of Middlesex St.
Wilder	East side, 128 ft. south of south line of Shaw St

LOW SERVICE HYDRANTS REMOVED IN 1910.

Street	LOCATION
Lincoln	South side of Lincoln St. on west line of Quebec St.
Marshall Rd.	East side of Marshall Rd. at intersection with Boston Rd.
Western Ave.	South side of Western Ave., 400 ft. east of east line School St.
Walker	West side of Walker St., 34 ft. north of north line West Adams St.

HIGH SERVICE—LIST OF HYDRANTS SET DURING
THE YEAR 1910.

Street	LOCATION
Andover	Location changed from opposite Clark Rd. to 3 ft. north of north line Andover St., in Park area Clark Road north
Beacon	West side, 139 ft. north of north line Durant St.
Clark Rd. North	In Park area, 6 ft. south of south line Mansfield St.
East Merrimack	East side, 600 ft. north of north line Andover St.
Harland Ave.	West side, 186 ft. north of north line Andover St.
Summit	North side, 199 ft. east of east line Fairmount St.

SUMMARY.

Low Service laid in 1910	11,108
Low Service previous to 1910	711,328
	<hr/>
Low Service pipes removed in 1910 (Deduct)	722,436
	3,796
Total Low Service in use January 1, 1911	718,640
High Service laid in 1910	2,563
High Service Previous to 1910	46,034
	<hr/>
Total High Service in use January 1, 1911	48,597
Total Low Service in use January 1, 1911	718,640
	<hr/>
Total High and Low Service to January 1, 1911	767,237
Total pipe in use January 1, 1911, in miles	145.30

LOW SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1910.

STREETS	LOCATION (*Indicates for Grade Crossings)	4"	6"	8"	10"	12"	16"
Aberdeen	12 ft. east of west line Aberdeen St., 28 ft. north of south line Methuen St.	. . . .	1	. . . .	. . . .	. . . .	. . . .
Andover	31 ft. south of north line Andover St., on east line of High St.	. . . .	. . . .	. . . .	. . . .	. . . .	1
Appleton	13 ft. south of north line Appleton St., 4.5 ft. east of west line of Central St.	. . . .	. . . .	. . . .	1	. . . .	. . . .
Bennett	12 ft. east of west line Bennett St., on south line of Pine St.	. . . .	1	. . . .	. . . .	. . . .	. . . .
Bond	10 ft. south of north line Bond St., on east line of Highland Ave.	. . . .	1	. . . .	. . . .	. . . .	. . . .
*Boston Rd.	13 ft. west of east line Boston Road, on north line of Foundry St.	. . . .	. . . .	. . . .	1	. . . .	. . . .
Church	15 ft. north of south line Church St., on east line of Central St. to 9 ft. north of south line of Church St., 30.5 ft. east of west line Central St.	. . . .	. . . .	. . . .	. . . .	1	. . . .
Common Ave.	25 ft. east of west line Common Ave., on south line of Salem St.	. . . .	1	. . . .	. . . .	. . . .	. . . .
Crawford	13 ft. north of south line Crawford St., on east line of Fourth Ave.	. . . .	1	. . . .	. . . .	. . . .	. . . .
Dutton	Y. M. C. Association service—13 ft. west of east line Dutton St., 70.5 ft. south of south line of Merrimack St.	1	. . . .	. . . .	. . . .	. . . .	. . . .
Florence Ave.	12 ft. west of east line Florence Ave., on north line of Pine St.	. . . .	. . . .	1	. . . .	. . . .	. . . .
Foundry	12 ft. south of north line Foundry St., on south line of Plain St.	. . . .	. . . .	1	. . . .	. . . .	. . . .

LOW SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1910—CONTINUED.

STREETS	LOCATION (*Indicates for Grade Crossings)	4" 6" 8" 10" 12" 16"				
		4"	6"	8"	10"	12" 16"
Foundry	12 ft. south of north line Foundry St., on east line of Marshall Road	....	....	1	....	....
Fourth Ave.	23.7 ft. west of east line Fourth Ave., on north line of Ht. Hope St. . .	....	....	1	....	....
French	Fire Service Merrimack Square Theatre, 44 ft. north of south line French St., 8.6 ft. east of east line of Brookings St. . . . .	....	1	....	....	....
George	15 ft. east of west line George St., on south line of Church St. . . . .	....	1	....	....	....
George	13 ft. west of east line George St., on north line of Church St. . . . .	....	1	....	....	....
Harris Ave.	12 ft. east of west line Harris Ave., 3 ft. south of south line Shaw St..	....	....	1	....	....
Harris Ave.	12 ft. east of west line Harris Ave., on north line of D St. . . . .	....	....	1	....	....
Holden	13 ft. east of west line of Holden St., on north line of Westford St., . . .	....	1	....	....	....
Jackson	Fire Service and supply, Lowell Storage Warehouse Co., 18 ft. north of south line Jackson St., 117 ft. east of east line of King St.	1	....	....	....	....
*Lincoln	12 ft. north of south line Lincoln St., on west line of Autumn St. . . . .	....	....	....	....	1
*Lincoln	18 ft. north of south line Lincoln St., 4.5 ft. east of east line Main St.	....	....	....	....	1
*Lincoln	16 ft. north of south line Lincoln St., 39 ft. east of east line Quebec St.	....	....	....	....	1

LOW SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1910—CONTINUED.

STREETS	LOCATION (*Indicates for Grade Crossings)	4"	6"	8"	10"	12"	16"
Litchfield Ter.	5.5 ft. south of north line Litchfield Terrace, on east line of Walker St.	....	1	....	....	....	....
Maple	11 ft. north of south line of Maple St., on west line of Autumn St.	....	1	....	....	....	....
Marginal	12 ft. south of north line Marginal St., on west line of Glidden Ave.	....	....	1	....	....	....
McIntire	10.7 ft. west of east line McIntire St., on south line of Middlesex St.	....	1	....	....	....	....
Middlesex	John C. Meyer Co. Service. Location changed from 4 ft. south of north line Middlesex St., to 7 ft. south of same, 17.5 ft. west of east line Duren Ave.	1	....	....	....	....	....
Middlesex	34.8 ft. north of south line Middlesex St., 30 ft. east of stone bound at angle of same	....	....	1	....	....	....
Middlesex	20.7 ft. south of south line of building at intersection of Pawtucket St., 6 ft. east of west end of same	....	....	1	....	....	....
Middlesex	20 ft. north of south line Middlesex St., 61 ft. west of west line Grand St., for hydrant	....	1	....	....	....	....
Middlesex	18.5 ft. north of south line Middlesex St., on east line of Webber St.	....	....	1	....	....	....
Middlesex	25 ft. north of south line Middlesex St., 62 ft. east of west end Davis & Sargent Building—Fire Service	....	1	....	....	....	....

LOW SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1910—CONTINUED.

STREETS	LOCATION (*Indicates for Grade Crossings)	4"	6"	8"	10"	12"	16"
Moody	Fire Service Lowell Textile School. Indicator post, 97 ft. north of Southwick Hall, 68.3 ft. west of Colonial Ave. Building	1	1				
	Indicator post, 97 ft. north of Southwick Hall, 73 ft. west of Colonial Ave. Building	1	1				
	Indicator post, 94 ft. north of Southwick Hall, 70.7 ft. west of Colonial Ave. Building	1	1				
Moore	Fire Service Sacred Heart School, 14.3 ft. south of north line Moore St., 41 ft. east of east line Andrews St.	1					
Perry	11 ft. west of east line Perry St., 17½ ft. north of south line Andover St.		1				
Perry	18 ft. east of west line Perry St., on south line of new Electric Light Building		1				
Perry	14 ft. east of west line Perry St., 6.7 ft. north of north line Mason Safety Tread Co., for hydrant	1	1				
Powell	12.5 ft. east of west line Powell St., on south line of Shaw St.	1	1				
Rogers.....	Shedd Playground supply. 35 ft. north of south line Rogers St., 222 ft. west of west line Boylston St.	1	1				
*Shaw	12 ft. south of north line Shaw St., 2 ft. west of west line Wilder St.		1				

LOW SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1910—CONTINUED.

STREETS	LOCATION (*Indicates for Grade Crossings)	4"	6"	8"	10"	12"	16"
Shaw	14 ft. south of north line Shaw St., on west line of Chelmsford St., replacing 6" gate					1	
Shaw	12 ft. south of north line of Shaw St., on west line of Smith St.					1	
Smith	14 ft. east of west line Smith St., on south line of Shaw St.		1				
Smith	14 ft. east of west line Smith St., on north line of Shaw St.		1				
Thorndike	Fire Service, Middlesex County Jail, 37.5 ft. east of west line Thorndike St., 28 ft. south of north line of Jail wall	1					
Victor	12 ft. east of west line of Victor, 10 ft. north of south line of Ennell St.			1			
Victor	12 ft. east of west line of Victor St., on south line of Beaulieu St.			1			
Walker	Fire Service, Lamson Store Service Co. Indicator post, 70 ft. east of east line Walker St., 47 ft. south of north line of Company's land		1				
	50 ft. south of Lamson Store Service land, 5 ft. west of Company's building		1				
*Walker	15 ft. east of west line Walker St., on north line of Columbus Ave.		1				
Webber	12 ft. east of west line Webber St., on south line of Middlesex St.			1			

LOW SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1910—CONCLUDED.

STREETS	LOCATION (*Indicates for Grade Crossings)	4"	6"	8"	10"	12"	16"
White	13 ft. south of north line White St., on east line of Moody St.....	.....	.....	1	.....	.....	.....
White	14 ft. east of west line White St., on north line of Mt Hope St. ....	.....	1	.....	.....	.....	.....
Wilder	13 ft. west of east line Wilder St., on south line of Pawtucket St. ....	.....	1	.....	.....	.....	.....
Willie Ave.	17 ft. east of west line Willie Ave., on south line of Salem St. ....	.....	1	.....	.....	.....	.....

LOW SERVICE—LIST OF SMALL STOP GATES FOR W. I. STREET MAINS LAID IN 1910.

STREETS	LOCATION	1"	1½"	2"
Poplar	5 ft. south of north line of Poplar St., on east line of Main St. ....	.....	1	.....

LOW SERVICE—LIST OF STOP GATES REMOVED IN 1910.

STREETS	LOCATION (*Indicates for Grade Crossings)	4"	6"	8"	10"	12"	16"
*Boston Road	12 ft. east of west line Boston Road at intersection with Marshall Road	....	....	1	....	....	....
*Lincoln	21 ft. north of south line of Lincoln St., 37 ft. west of west line of Quebec St. . . . .	....	....	....	....	1	....
Middlesex	26 ft. south of corner of Middlesex and Pawtucket Sts. . . . .	....	....	1	....	....	....
*Western Ave.	14 ft. north of south line Western Ave., on east line of School St. . . . .	....	....	....	1	....	....

HIGH SERVICE—LIST OF STOP GATES SET DURING THE YEAR 1910.

STREETS	LOCATION	4"	6"	8"	10"	12"	16"
Clark Rd. North . .	10 ft. east of west line Clark Road North, on west line of Andover St. .	....	....	1	....	....	....
East Merrimack . .	13 ft. east of west line E. Merrimack St., on north line of Andover St . .	....	....	1	....	....	....
Glenwood	13 ft. south of north line Glenwood St., on east line Wentworth Ave. .	....	1	....	....	....	....
Glenwood	13 ft. south of north line Glenwood St., on west line Butman Road . .	....	1	....	....	....	....
Harland Ave.	13 ft. east of west line Harland Ave., on north line of Andover St. . .	....	....	1	....	....	....
Mansur	14 ft. south of north line Mansur St., 5 ft. east of east line of Wentworth Ave. . . . .	....	1	....	....	....	....
Summit	14 ft. south of north line Summit St., 33 ft. west of east line of Fairmount St. . . . .	....	1	....	....	....	....
Wentworth Ave. . .	31.5 ft. west of east line Wentworth Ave., on north line of Mansur St. .	....	1	....	....	....	....
Wentworth Ave. . .	32 ft. west of east line Wentworth Ave., on south line of Mansur St. .	....	1	....	....	....	....

LOW SERVICE--LIST OF FIRE SERVICE METERS AND CHECK VALVES SET IN 1910

CORPORATION	LOCATION	Fire Meters	Check Valves
American Mason Safety Tread Co.	Perry St., 3 ft. east of east side building, 71.3 ft. south of north end of same	6" Detector	.....
W. H. Bagshaw Est., Card Clothing Co.	4 ft. north of south line of Wilson St., 86 ft. east of east line of Chelmsford St.	2" Keystone	.....
Frank P. Cheney Box Factory	St. Hyacinth St., 4 ft. north of north side of factory, 73.5 ft. east of west side of same	4" Detector	.....
Walter Coburn Company	Congress St., 2 ft. south of north line, 64.5 ft. east of angle in street	2" Crown	.....
Lowell Park Department	20 ft. south of south line Rogers St., 222 ft. west of west line Boylston St.	6" Detector	.....
John C. Meyer & Co.	3.5 ft. south of north line Middlesex St., 17.6 ft. west of east line Duren Ave.	4" Detector	.....
John Pilling Shoe Co.	1 ft. west of east line Shaffer St., 63.5 ft. south of angle in street	6" Detector	.....
Sacred Heart School	Moore St., 1 ft. north of south basement wall of School, 39 ft. east of west side of same	2" Crown	.....
Thorndike Manufacturing Co. . .	Thorndike St., 5.6 ft. south of south line Thorndike St., 3 ft. west of east wing of building	4" Detector	.....
United States Bunting Co.	16 ft. south of north line of Chambers St., on the east line of Newhall St.	1" Keystone	.....
Young Men's Christian Asso. . .	Dutton St., 16.5 ft. west of west side Boiler Room, 33 ft. south of north corner of same	2" Crown	.....

CITY OF LOWELL



1911

REPORT

OF THE

COMMITTEE ON APPROPRIATIONS.

CITY HALL, LOWELL, MASS., February 10, 1911.

TO THE CITY COUNCIL:—

The Joint Committee on Appropriations, to whom were referred the various estimates for the year 1911, have attended to the business committed to them and

REPORT:

Your Committee have had six meetings and have carefully examined into every item that appeared in the estimates. There are, of course, some requests always made that are really advisable to grant but have to be stricken out to give place to more im-

perative ones. Some of these are for improvements that can be properly provided by loans and will later be given attention.

The total department estimates for 1911 were \$1,578,370.68 and the total amount available for use was \$1,414,118.11, showing that the sum of \$164,252.57 would have to be cut, a decrease of \$19,253.43 over last year. The amount available from taxation was \$943,438.11, slightly smaller than last year, owing to the fact that under the law relating to cities of 100,000 inhabitants or over the average valuation for three years has to be taken instead of that of the previous year. But the estimated department revenues, after providing for a deficit of \$10,820 which came over from last year, were in excess of those of last year and this more than offset the loss in tax money. Our total cut was sufficient to leave a balance of \$8,523.72 in the General Treasury Fund.

One provision we have made is for the payment of the bill of the \$4,286.92 for care of Lowell cases in the Massachusetts School for Feeble-Minded. During the past year this bill has created an endless controversy, which we have settled by recommending the amount necessary.

A number of raises in compensation were asked for among subordinate department employees and we have recommended all that our means would allow. With the funds available, we have tried to treat every department fairly and to allow every cent it was possible to allow.

No doubt one of the reasons why our total revenues are not larger than last year is that Lowell's personal property tax is not as large as we might expect. It is always a difficult task we realize, to ferret out every cent of personal tax, especially when it is well known that some people go to any extreme to "dodge" on their just dues. We would recommend that the

Assessors keep closely on the heels of this class of citizens so that they, as well as other taxpayers, will be compelled to pay what they ought legally and rightfully to pay.

Your Committee has taken in hand the complete separation of the appropriation for Mayor's sundry expenses and that for Incidental expenses. Under the Charter Amendments (Chapter 415, Section 7, Acts of 1896) it was clearly established that an appropriation for City Council contingent or incidental expenses was intended but it was given in charge of no particular official. The Mayor, by a subsequently passed Ordinance, was given simply the power to approve bills against Incidental fund. He was never given power to contract bills against this appropriation and evidently this could not be given him because this was strictly a matter wholly in the hands of the City Council. But on account of the fact that the Mayor's appropriation for years for sundry expenses was always so low that it would little more than provide for his stationery, he has been compelled to charge some of his expenses to the appropriation for Incidentals. Your Committee has accomplished the change which we are sure the Charter required of separating the appropriation for Mayor's sundry expenses and Incidental City Council expenses by increasing the former and decreasing the latter. We have had prepared an Ordinance which accomplishes the separation and gives the Messenger sole charge of Incidentals Appropriation. This Ordinance also provides that as a check on unwise or unlimited expenditures, the approval of the presiding officers of the two branches of the City Council will be necessary before any out of town tour of inspection can be made. Under the new idea, expenses for Committee work, heretofore paid out of various department appropriations, will be paid out of Incidentals Appropriation.

Your Committee would suggest in closing that down town quarters for the Sealer's department, possibly the Mann School, would result in more satisfactory service to the department and to the public as well.

ESTIMATED REVENUE FOR 1911.

Total valuation for three years with all abate- ments deducted	\$235,859,528 62
Average valuation for three years	78,619,842 87
Limit of appropriations that can be made for current expenses for the year 1911, under Chapter 490, Section 53, Acts of 1909 (\$12 per \$1,000 valuation)	\$943,438 11

OTHER REVENUES.

Buildings	\$ 2,400 00	
Charity (Hospital)	1,700 00	
Charity (Outdoor R.)	3,500 00	
Cemeteries	7,500 00	
City Clerk	1,800 00	
City Sealer	500 00	
City Treasurer	950 00	
City Weigher	40 00	
Corporation Tax	143,200 00	
Excise Tax	9,900 00	
Fire Department	50 00	
Health Department	6,500 00	
Incidentals	3,500 00	
Inspector of Milk.....	300 00	
Interest	29,000 00	
Liquor Licenses	177,500 00	
Military Aid, etc.....	20,000 00	
Moth Extermination	2,000 00	
National Bank Tax	3,600 00	
Parks	1,000 00	
Police	12,000 00	
Schools	6,500 00	
Sewer Construction	10,000 00	
Streets	7,700 00	
Street Railway Tax	10,000 00	
Watering Streets	19,000 00	
Miscellaneous	1,360 00	
Total	\$481,500 00	
Less G. T. F. deficiency ..	10,820 00	
		470,680 00
Total Estimated Revenue		\$1,414,118 11

**Summary of Department Expenses and Estimates—Amount
Recommended by Committee on Appropriations.**

	1910 Expense	1911 Estimate	Committee Recommends
Assessors	\$ 13,238 69	\$ 15,511 40	\$ 14,450 00
Auditor	5,158 95	5,590 00	5,390 00
Buildings	31,741 47	28,798 00	20,045 25
Charity (Hospital)	46,889 33	49,241 25	42,000 00
Charity (Outdoor Relief) ..	29,221 02	39,147 92	39,000 00
City Cemeteries	7,641 74	10,000 00	8,000 00
City Clerk	6,510 03	6,802 00	6,560 33
City Messenger.....	17,999 56	18,600 00	18,575 00
City Sealer	2,295 91	2,980 00	2,730 00
City Treasurer	11,401 68	11,804 00	11,694 00
City Weigher	809 92	810 00	810 00
Clerk of Committees	1,596 75	1,600 00	1,600 00
Clerk of Common Council ..	300 00	300 00	300 00
Elections	9,029 92	9,075 00	9,000 00
Engineering	15,068 66	7,000 00	6,000 00
Fire	180,324 37	184,692 25	171,976 25
Fish Warden	40 00	40 00	40 00
Grade Crossings	163 90	500 00	200 00
Health (Office).....	17,251 12	20,601 18	15,601 00
Health (Yard)	45,635 76	49,437 33	43,000 00
Incidentals	2,072 31	2,400 00	1,100 00
Insurance	3,255 22	3,500 00	3,500 00
Inspector of Animals	510 00	510 00	510 00
Inspector of Milk	2,592 27	2,605 22	2,579 00
Inspector of Wires	2,565 28	2,526 00	2,526 00
Law	5,322 41	5,925 00	5,324 00
Library	15,452 13	16,500 00	15,500 00
Liquor Licenses	42,762 75	44,375 00	44,375 00
Lighting	98,992 84	101,039 25	101,039 25
Mayor	4,352 04	4,400 00	4,900 00
Medical Inspection	429 00	820 00	820 00
Moth	9,000 00	10,000 00	6,000 00
Park	26,529 95	27,259 10	17,800 00
Pound Keeper	5 00	5 00	5 00
Police	158,417 46	161,604 18	155,000 00
Registrars	4,955 30	4,860 00	4,500 00
Rifle Range	928 95	2,214 00	924 00
School	380,721 08	386,000 00	369,000 00
School Houses	28,653 06	35,700 00	19,000 00
Sewer Construction	50,593 84		
Sewer Maintenance	19,870 18	23,582 00	15,000 00
Smoke Inspector	99 89	400 00	100 00
State Aid	40,763 01	39,800 00	39,800 00
Street	197,101 14	209,999 85	154,000 00
Supply	6,500 46	7,219 00	6,718 00
Water Works	220,204 83		
Watering Streets	20,839 79	22,596 75	18,500 00
Totals	\$1,785,808 97	\$1,578,370 68	\$1,405,492 08

LIMIT OF INDEBTEDNESS.

Limit of Municipal Debt for 1911, 2½ per cent. on \$78,619,842.87 (average valuation for last three years)			\$1,965,496 07
Total City Debt, January 1, 1911		\$3,422,490 00	
Deduct Water Loans	\$1,151,200 00		
Deduct exemptions by Legislature	800,000 00	1,951,200 00	
City Debt as it relates to limit of indebtedness .			1,471,290 00
Distance from Debt Limit, January 1, 1911			\$ 494,206 07
Distance from Debt Limit, January 1, 1910			360,771 61
Increase in distance from Debt Limit			\$ 133,434 46

FIXED CHARGES.

	1910	1911	Decrease
City Debt	\$273,914 20	\$269,164 20	\$ 4,750 00
Interest	145,000 00	140,000 00	5,000 00
Sinking Funds	30,500 00	30,500 00	
	\$449,414 20	\$439,664 20	\$9,750 00

LOANS OF 1910.

Paving Streets	\$ 68,000 00
Sewer Construction	50,000 00
Fire, Hospital, School Repairs	10,000 00
Congress and Billerica Streets Bridge	10,000 00
Lawrence Street Improvements	20,400 00
Police Department Wires	4,000 00
Fire Department Wires	3,000 00
Shedd Playground	10,000 00
Police Patrol	5,600 00
Water Works—New Pump	60,000 00
Total	\$241,000 00

Summary of Anticipated Receipts and Appropriations, 1911.

Amount which Assessors are directed to		
raise by taxation	\$1,383,000 00	
Revenue Estimated	470,680 00	
	<hr/>	\$1,853,680 00
Fixed Charges	\$ 439,664 20	
Appropriated for Departments	1,405,492 08	
	<hr/>	1,845,156 28
Balance left in General Treasury Fund		<hr/>
		\$ 8,523 72

Your Committee introduce the accompanying Joint Orders and recommend the adoption of same; also passage of accompanying ordinance.

Respectfully submitted,

JAMES J. GALLAGHER,

JAMES J. FLANAGAN,

HERBERT L. CHAPMAN,

ROBERT S. FULTON,

BERNARD J. TRACEY,

Committee on Appropriations

CITY OF LOWELL.

ORDER to appropriate money to meet Fixed Charges and Current Expenses.

ORDERED, If the Common Council concur, that the following sums amounting to One Million, Eight Hundred Forty-five Thousand, One Hundred Fifty-six Dollars and Twenty-eight Cents (\$1,845,156.28) be and the same are hereby appropriated to meet the Fixed Charges and Current Expenses of the City of Lowell for the year beginning January 1, 1911, and ending December 31, 1911.

Assessors

Salaries and Wages	\$ 12,000 00	
Tax Book	1,650 00	
Other Expenses	800 00	
	<hr/>	\$14,450 00

Auditor

Salary and Wages	3,890 00	
Other Expenses (Including Auditing Books).....	1,500 00	
	<hr/>	5,390 00

Buildings

Office Salary and Wages	12,945 25	
Other Expenses	7,100 00	
Rifle Range Wages	624 00	
“ “ Other Expenses	300 00	
School Houses Wages	10,000 00	
“ “ Other Expenses	9,000 00	
	<hr/>	39,969 25

Charity (Outdoor Relief)	\$34,713 08	
Bill of Mass. School for Feeble-Minded .	4,286 92	
(Hospital)	42,000 00	
	<hr/>	\$81,000 00
City Cemeteries		8,000 00
City Clerk		
Salary and Wages	5,290 33	
Other Expenses	1,270 00	
	<hr/>	6,560 33
City Messenger		
Salary and Wages	10,575 00	
Other Expenses	8,000 00	
	<hr/>	18,575 00
City Sealer		
Salary and Wages	1,980 00	
Other Expenses	750 00	
	<hr/>	2,730 00
City Treasurer		
Salary and Wages	9,004 00	
Other Expenses (Including Safety Deposit Box)	2,690 00	
	<hr/>	11,694 00
City Weigher		
Salary	800 00	
Other Expenses	10 00	
	<hr/>	810 00
Clerk of Committees		
Salary	1,400 00	
Other Expenses	200 00	
	<hr/>	1,600 00
Clerk of Common Council		300 00
Elections		9,000 00
Engineering		6,000 00

Fire		
Salaries and Wages	\$146,951 25	
Other Expenses (including care of High Street Church clock)	25,025 00	
	<hr/>	\$171,976 25
Fish Warden		40 00
Health (Office)		
Salaries and Wages	10,601 00	
Other Expenses	5,000 00	
Milk Inspection Salary and Wages	2,204 00	
" " Other Expenses	375 00	
Medical Inspection of Private Schools....	820 00	
	<hr/>	19,000 00
Health (Yard)		
Wages	38,619 51	
Other Expenses	4,380 49	
	<hr/>	43,000 00
Incidentals		1,100 00
Insurance		3,500 00
Inspector of Animals and Provisions		
Salary	500 00	
Other Expenses	10 00	
	<hr/>	510 00
Inspector of Wires		
Salary and Wages	2,226 00	
Other Expenses	300 00	
	<hr/>	2,526 00
Law		
Salary and Wages	4,824 00	
Grade Crossings	200 00	
Other Expenses	500 00	
	<hr/>	5,524 00
Library		15,500 00
Lighting		101,039 25
Liquor Licenses		44,375 00

Mayor

Salary and Wages	\$4,200 00	
Other Expenses	700 00	
Smoke Inspection	100 00	
	<hr/>	\$5,000 00

Moth and Beetle Extermination		6,000 00
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Park

Wages	10,000 00	
Other Expenses	4,000 00	
Care of Trees	800 00	
Playgrounds	1,500 00	
Repairing School Grounds	500 00	
Lucy Larcom Park	1,000 00	
	<hr/>	17,800 00

Police

Salaries and Wages	150,000 00	
Other Expenses	5,000 00	
	<hr/>	155,000 00

Poundkeeper		5 00
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Registrars of Voters		4,500 00
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Schools		369,000 00
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Sewer Maintenance

Wages	12,000 00	
Other Expenses	3,000 00	
	<hr/>	15,000 00

State Aid

Salaries and Wages	2,100 00	
State Aid	17,500 00	
Military Aid	3,000 00	
Soldiers' Relief	17,200 00	
	<hr/>	39,800 00

Street

Salary and Wages	114,000 00	
New Sidewalks	5,000 00	
Other Expenses	35,000 00	
	<hr/>	154,000 00

Street Watering		
Wages	\$ 4,500 00	
Other Expenses	14,000 00	
	<hr/>	\$18,500 00
Supply		
Salary and Wages	5,718 00	
Advertising	300 00	
Other Expenses	700 00	
	<hr/>	6,718 00
Department Total		<hr/> \$1,405,492 08

FIXED CHARGES.

City Debt	\$269,164 20	
Interest	140,000 00	
Sinking Funds	30,500 00	
	<hr/>	\$439,664 20
Total		<hr/> \$1,845,156 28

And that the sum of Two Hundred Thousand Dollars (\$200,000.00) be and the same is hereby appropriated for the expenses of the Water Department, to be paid from its revenues.

CITY OF LOWELL.

Order to Assess Taxes for the year Nineteen Hundred and Eleven.

ORDERED, if the Common Council concur:

First: That the Board of Assessors of the City of Lowell be and they are hereby instructed to raise the sum of One Million, Three Hundred Eighty-three Thousand Dollars (\$1,383,000.00), by assessment upon Polls and Estates of the Inhabitants of the City of Lowell, and Estates of Non-Resident Proprietors, according to law, to defray the current expenses of the City for the financial year beginning January 1, 1911, and ending December 31, 1911.

Second: That interest at the rate of six per centum per annum shall be charged on all taxes under this Order which remain unpaid on and after the twentieth day of October, 1911, until same shall be paid, and such interest shall be added to and be considered a part of said taxes.

Third: That a copy of this Order shall be furnished to the Board of Assessors by the City Clerk within ten days after the approval of the same.

CITY OF LOWELL.

Order relating to Report of Committee on Appropriations.

ORDERED, if the Common Council concur, that a sufficient number of copies of the report of the Committee on Appropriations be printed for, and that they be included in the published volumes of the Lowell City Documents for the year 1911, the expense of the printing to be charged to the Appropriation for Incidentals.

CITY OF LOWELL.

In the year Nineteen Hundred and Eleven.

AND ORDINANCE creating a fund to be known as the City Council Fund.

BE IT ORDAINED by the City Council of the City of Lowell, as follows:

Sec. 1. There shall be appropriated, annually, a sum of money such as the city council may deem reasonable and proper, to be known as the City Council Fund.

Sec. 2. Said fund shall be used only to defray the contingent and incidental expenses of the city council and of any committee thereof; provided, however, that no liability shall be incurred and no expenditure shall be made from, or chargeable to, said fund by or on behalf of any committee of the city council until the chairman of the board of aldermen and the president of the common council have first signified their approval of the same.

Sec. 3. The City Messenger shall approve all bills chargeable to this appropriation and shall keep an account of all expenditures therefrom.

Sec. 4. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Sec. 5. This Ordinance shall take effect upon its passage.

ANNUAL REPORT
OF THE
Births, Marriages and Deaths

OF THE
CITY OF LOWELL

For the Year 1910



LOWELL, MASS.
MCCARTHY THE PRINTER
1911

CITY OF LOWELL

IN BOARD OF ALDERMEN,
May 2, 1911.

Received and ordered on file; sent down for concurrence.

STEPHEN FLYNN,
City Clerk.

IN COMMON COUNCIL,
May 9, 1911.

Received and ordered on file in concurrence.

HOMER L. P. TURCOTTE,
Temporary Clerk.

CITY OF LOWELL

CITY CLERK'S OFFICE,
May 2, 1911.

TO THE HONORABLE CITY COUNCIL.

GENTLEMEN :

I have the honor to present you herein the annual report of Births, Marriages and Deaths for the year 1910, as of record in this office, to wit :

BIRTHS

	By Wards—1	2	3	4	5	6	7	8	9	Total
Whole Number - - - -	182	397	245	261	252	693	203	180	196	2609
Males - - - - -	92	197	122	133	136	346	108	95	99	1328
Females - - - - -	90	200	123	128	116	347	95	85	97	1281
American Parents - - -	44	58	69	61	69	76	63	79	66	585
Foreign Parents - - - -	96	283	119	150	150	455	88	55	80	1476
American Father, Foreign Mother - - -	21	28	30	25	18	75	30	29	32	288
Foreign Father, American Mother - -	21	28	27	25	15	87	22	17	18	260
Twins - - - - -	3	4	1	2	4	11	5	2	1	33

In addition to the above there are recorded the births of twenty-one children born in Lowell of parents resident elsewhere, and thirteen born elsewhere of Lowell parents.

Still-births, not included, 136.

DEATHS

The total number of deaths returned and recorded in the City Clerk's office for the year 1910, exclusive of stillbirths, was 2172, of which number 72 were residents of Lowell who died elsewhere, making the number of deaths returned and recorded as having occurred in Lowell (41 of which were non-residents) 2100.

[illegible]

Statistics in greater detail relating to deaths may be found in the annual report of the Board of Health.

Respectfully submitted,

STEPHEN FLYNN,

City Clerk.

TABLE GIVING THE NUMBER OF BIRTHS, MARRIAGES AND DEATHS
IN LOWELL SINCE ITS INCORPORATION

YEAR	POPULATION	BIRTHS	MARRIAGES	DEATHS
1826-1843		Est. 5010	Est. 4500	Est. 4186
1844	25,163	662	319	362
1845		660	399	363
1846	29,127	772	591	690
1847		719	659	949
1848		796	516	825
1849		672	320	903
1850	33,383	966	674	492
1851		1018	669	629
1852		1007	669	604
1853		1093	742	734
1854		1092	808	834
1855	37,554	1039	687	766
1856		1034	632	790
1857		1051	585	818
1858		827	467	626
1859		983	496	739
1860	36,827	1077	497	720
1861		949	459	713
1862		763	368	641
1863		657	302	695
1864		658	335	633
1865	30,990	672	406	575
1866	36,878	813	625	749
1867		826	596	640
1868		860	495	857
1869		858	575	763
1870	40,928	926	515	952
1871		886	647	1033
1872		1099	670	1048
1873		1365	705	1161
1874		1356	580	1184
1875	49,688	1296	513	1020
1876		1264	514	1147
1877		1341	552	1029
1878		1332	546	1088
1879		1412	635	1006
1880	59,485	1770	744	1312

YEAR	POPULATION	BIRTHS	MARRIAGES	DEATHS
1881		1840	786	1287
1882		1755	813	1322
1883		1681	848	1432
1884		1786	735	1401
1885	64,107	1769	707	1328
1886		1813	813	1499
1887		1835	873	1872
1888		1886	886	1763
1889		2133	965	1894
1890	77,696	2175	979	1960
1891		2203	944	1976
1892		2714	941	2228
1893		2688	955	2108
1894		2764	793	1790
1895	84,359	2772	978	1898
1896		2805	854	1896
1897		2622	866	1882
1898		2422	962	1835
1899		2419	1015	1880
1900	94,969	2574	1135	1852
1901		2770	1022	2042
1902		2496	1075	1944
1903		2514	1026	1897
1904		2515	1065	1736
1905	94,889	2513	981	1899
1906		2550	1125	1919
1907		2689	1055	2063
1908		2730	860	1963
1909		2631	1022	1885
1910	106,294	2609	1065	2100
		<hr/> 112,254	<hr/> 53,156	<hr/> 88,827

THIRTY-THIRD

ANNUAL REPORT

OF THE

BOARD OF HEALTH

OF THE

CITY OF LOWELL

For the Year 1910



COURIER-CITIZEN COMPANY, PRINTERS
LOWELL, MASS.



ORGANIZATION, 1910.

BOARD OF HEALTH

G. FORREST MARTIN, M. D., CHAIRMAN.
DENNIS J. MURPHY, Esq.
LEONARD HUNTRESS, M. D., to Dec. 21, 1910.
JOHN A. OSGOOD, from Dec. 21, 1910.
FRANCIS J. O'HARE, SECRETARY.

HEALTH DEPARTMENT OFFICERS

OFFICE EMPLOYES

FREDERICK A. BATES, Agent.
THOMAS B. SMITH, M. D., Bacteriologist.
WILLIAM A. JOHNSON, M. D., Physician.
KATHARINE W. SNOW, Registrar.
EMMA E. HURLEY, Temporary Clerk.

INSPECTORS

FRANCIS J. O'HARE, Inspector Contagious Diseases.
STEPHEN GARRITY, Plumbing Inspector.
WILLIAM H. CONNORS, Plumbing Inspector.
JOHN KEARNEY, Health Inspector.
CLEMENT A. HAMBLET, Inspector Meat and Provisions.

CITY OF LOWELL

IN BOARD OF ALDERMEN, February 14, 1911.

Received, read and ordered on file; sent down for concurrence.

GIRARD P. DADMAN, *City Clerk*.

IN COMMON COUNCIL, February 23, 1911.

Received, read and ordered on file; in concurrence.

FRANK M. DOWLING, *Clerk*.

REPORT

LOWELL, MASS., February 3, 1911.

To the Honorable Mayor and City Council of the City of Lowell.

GENTLEMEN:—

The thirty-third annual report of the Board of Health of Lowell is herewith respectfully submitted.

The Board was duly organized on January 6, 1910, by choosing Dr. G. Forrest Martin as Chairman; Dr. Leonard Huntress and Dennis J. Murphy, Esq., continued as the other members of the Board, and Mr. Francis J. O'Hare remained as the efficient Secretary.

It is a pleasure at the end of another year's work, to be able to repeat the statement made in last year's report that "politics has not entered into our calculations in the least." The Health Department of Lowell, for the year 1910, has been a *unit*, with but one end in view, and that was the welfare of the City of Lowell, and exact justice to all of her citizens. No more conscientious and faithful public official has ever sat in City Hall than the present Agent of our Board, Mr. F. A. Bates, and it is a pleasure to publicly commend him. Our Inspectors have been ardent, courteous and willing, under the extra work which we have forced upon them, and the same praise is due to our Bacteriologist and our Registrar.

In the Yard force, where many of the men have worked at their tasks for a number of years, we are employing a faithful body of men, and on July 1, 1910, their pay was advanced

somewhat to bring their wages into the averages paid in other cities for similar work.

The year has been one of hard work for everybody connected with the Department from the members of the Board to the men on the teams, but all have worked hard and some good has been accomplished. To give Lowell a Health Department such as a city of her importance should have, would require several things which do not now obtain. In the first place, much more money must be appropriated for the work than the City Council seems willing to give. One dollar per capita of the population would be none too much to properly attend to the numerous branches of the Health work of such a city as Lowell, and this amount is freely appropriated by numerous other cities. When you consider that sixty (60¢) cents per capita is the present appropriation under which we work; when you remember that in addition to the strict health work, the department has all the care of ashes, garbage, dumps, alleys, slaughtering, markets and market refuse, plumbing, and nuisances of all sorts and kinds, to say nothing of the care of the milk supply of the city, some idea of the care with which the expenditures are guarded can be obtained.

It is a question well worth considering by the Board of 1911, whether or not it would not be better to have the ash collection made by the Street Department. Some conflict which occasionally arises about littering the streets with ashes or papers could thus be avoided. There could be some saving made by avoiding duplication of teams; and in the matter of dumps, the filling and covering could often be better worked together by one department than is possible where two or more are obliged to make an agreement about material.

The garbage teams should, however, remain under the Health Department. At the present time, much annoyance and trouble is occasioned to this Department by the petty conflicts of small collectors of swill, who keep a few pigs. We are almost ready to decide that such small licenses would better be done away with entirely, and if permits are granted at all to

keep pigs in the city limits, that the swill must be obtained from the Yard collections. There are many features to this garbage question which require careful supervision to avoid making numerous nuisances thereof.

Another thing which would help the efficiency of the Department would be to have it in some way, divorced from politics. The three members who have constituted your Health Board for the past two years have been unanimous on all questions which have come up, after they have been freely considered, and in this way they have been able to systematize the work of the Department, and lay a foundation for a real system of Health supervision for our city. But they are well aware that, as yet, it is only a foundation, and that the superstructure must arise, step by step, as one problem after another is worked out. Such a work cannot be finished by any Board in two years, but we have done our best with the force and means at our command.

The Milk Supply of the city continues to be the greatest problem on our hands. We have been able to continue the improvement of last year to a considerable extent, but the conditions are still far from ideal. In the City Proper much improvement must be noticed in the appearance of the teams, and the milk utensils, even by a casual observer. They are cleaner and neater in almost every case, and their owners seem to be taking a just pride in this fact. The same may be said of most of the milk-rooms. The filthy old measures have practically disappeared from the teams and the householder is now receiving sealed milk in clean bottles. The next step should be made by the milkmen themselves, and that should be a closer supervision of their sources of supply. Some of our cleanest and most careful milk distributors have their work come to naught because of the filthy conditions about one or more of the farms from which they now obtain their supply. It should now become the custom for every milkman to insist upon proper, sanitary conditions about the barns and dairies from which they purchase their supplies. The larger distributors could

well afford to keep an inspector employed all the time at this work.

The smaller dealers could obtain equally good results by clubbing together in groups and employing a competent man for the same purpose. We want once more to emphasize the great importance of keeping flies away from the milk supply. Screens are cheaper than sickness, and should receive greater attention from dairymen, milkmen, storekeepers and householders.

Contagious and diarrhoeal diseases could be cut in half, if the flies were kept from the milk and the milk utensils, and the latter and the hands of those who handle it were kept scrupulously clean.

Our milk question would not be properly discussed if we failed to bring home the lesson taught by our recent epidemic of typhoid fever. On the 6th of September, two cases of typhoid fever were reported to the Board, one of these was supplied with milk by C. A. Frost, and one told of being a frequent indulger in ice cream sold from a store which was supplied with milk for its soda fountain from the same dealer. This slight cue led the Agent and Chairman of the Board to immediately visit the Frost milk-rooms. It is but fair to state that things were found in fair condition here, and no cause could be found about the premises to account for the coincidence. Widal blood tests were at once taken, however, of all employees and others about the place, thirteen in all.

On September 7th, a clerk who had assisted in making the ice cream at the drug store, was reported sick with typhoid fever, and also one of the regular clerks in this store. There were four other cases reported during the afternoon, three of which were connected with the same milk supply. The Widal tests taken the day before showed all negative except one case. This was not positive, but a doubtful case. We immediately conferred with the Frost people, and finding it impossible to obtain at once conditions which were deemed safe where utensils, etc., were more or less contaminated, the Chairman and Agent gave

orders to have the plant immediately closed up. Being large distributors, we were convinced that trouble had already been made for many people, and we estimated that the cases would continue to be reported for two weeks or more. On the 8th of September three more cases were reported, all on the Frost milk route. On the 9th, six more cases, all on this route. And so it went on, until up to September 30th, 94 cases had been reported. In October the number of cases fell to 20, and in November to 13, and what threatened to be a very serious epidemic was over. As soon as the orders mentioned above had been given by the Chairman and Agent, Dr. Huntress was called in conference and promptly endorsed the action taken. Mr. Murphy was at the time absent in Europe. And now, as to the source of the infection. As soon as a search of the Frost premises failed to reveal the lurking place of the infection, his sources of supply were promptly followed up. Besides his own 30 cattle, he received milk from six farms. These were all found in first-class condition except the Wotton place. Here we found that the proprietor had just been sent to the hospital with an obscure sickness, not diagnosed, of several weeks' standing. This case was followed, the blood examined, and a positive Widal reaction found. This farm had been sending twenty cans of milk a day to Frost. They were at once ordered to stop sending any milk to Lowell, and the fight was won. Both this place and Frost's were submitted to a very rigid cleaning up before being allowed to resume business. And now comes another interesting chapter in the story of this epidemic. We have referred to a doubtful reaction in the case of one of the Frost employees. Another test was taken and this showed a prompt positive Widal. Repeated tests continued to show the same result, although he never developed another symptom. The urine was repeatedly examined and typhoid bacilli found present. *We evidently had here one of the most dangerous kind of "typhoid carriers."*

He had evidently acquired the infection from the Wotton milk, and even after that supply was stopped to Frost, would

have gone on contaminating the latter's product indefinitely, had not the whole business been stopped. This employee was kept under observation for 52 days, and then the urine and blood being free, was released.

After reviewing the whole situation in the light of the final findings, the Board feels very grateful, and the public have cause to congratulate themselves, that the supply of typhoid bacilli was cut off on the second day instead of later. The conditions were ripe for an extensive epidemic, had not prompt and even arbitrary action been taken. This epidemic is a splendid illustration of the need of systematic contagious disease work, and also emphasizes, as nothing else could, the importance of the utmost care in the handling of the milk of the city.

During the past year the number of bacteria has been counted in many specimens of milk and a great diversity has been found in the various samples. While upon the whole, considerable improvement has been shown in this particular, yet the counts still average much too high for safety. It is particularly advisable for the Board at an early date to establish a minimum bacterial count and insist upon milk being kept within this standard. While numerous samples have shown 200,000 and less, one sample examined counted above 3,500,000 bacteria to the c.c. A maximum of 500,000 would be none too low to insist upon. In the milk laboratory a refractometer has been added and some other improvements in the apparatus have been made, but even now the laboratory is insufficiently equipped for the amount of work required.

If the sources from which the milk of the city is derived are to be properly followed up, an automobile for the use of this department is an imperative need.

On April 25, 1910, the American Hide & Leather Co., made application to this department for permission to erect a modern sanitary beaming plant adjoining their tannery on Perry St. A study of the problem convinced the Board that further knowledge upon the subject should be obtained before granting the permit, and early in July the three members of the Board

made an inspection of modern beaming plants in Milwaukee and vicinity. Being convinced that the process of beaming hides could be carried on without material offence to the neighborhood, providing that the plant was properly constructed and equipped, the permit was granted on November 7, 1910, under conditions which the Board deemed perfectly satisfactory. By this step, an important industry has been saved to the city and the changes which will become a part of the construction of the new plant will also improve the sewage conditions about this portion of the Concord River.

Another forward step which has been taken by the Board of Health during the past year is the matter of inspection of the school children in the private schools of the city. On May 24, 1910, the Board obtained a special appropriation of \$600.00 from the City Council and appointed Dr. Frederick P. Murphy, Dr. Howard Jewett, Dr. M. A. Tighe, and Dr. R. Mignault to carry on this work. An itemized report upon a later page will serve to show the extent and variety of the cases needing attention of this kind. This inspection will hereafter be continued as a part of the regular work of the department.

During the past year extensive inspection of some of the worst tenement house districts of this city has been carried out by this department, a summary of which will be found on a later page of the report. It is worthy of mention in this connection to refer to the generous action of some public spirited citizens of the city who after observing the work which was being done, came to the assistance of this department and placed in the hands of its Chairman the necessary funds to employ an extra inspector for two months' time, thus materially aiding the work.

During the past year an additional number of anti-spitting signs have been placed in prominent places throughout the city, and it is worthy of mention that one of our large corporations came forward with an offer to erect similar signs about their tenement property, if the Board would supply them, which we were very glad to do.

As in the year previous, so also this year, the appropriation made for the care of contagious diseases was early exhausted. This work continues to be an increasing item of expense to the Health Department. With the laws as they now stand, there is little reason to expect otherwise for several years to come. Aside from the bills charged to this department for the care of cases of contagion occurring in other cities, of persons having settlements here, we have also had during the past year an unusual amount of contagious diseases among the children in the city. Of measles there were 1194 cases and 20 deaths; of scarlet fever, 304 cases and 38 deaths. We have also had during the past year an unusual amount of vaccination of children, there being 3543 cases during the year. This extra amount of sickness has called for the services of extra physicians and assistants, to say nothing of the increased cost of material required for fumigation, vaccination and similar supplies, all of which are properly chargeable to the item of contagious diseases.

Upon the whole, the year has been a satisfactory one, considering the various conditions which the Board has been obliged to meet.

It is a satisfaction to be able to record that after years of delay, the preliminary steps have been taken towards the erection of a contagious hospital for the City of Lowell. This, when completed and running, will materially lessen the annoying problems of the Health Department.

On December 21, 1910, Mr. John A. Osgood was chosen to succeed Dr. Huntress as a member of the Board of Health.

Respectfully submitted,

G. FORREST MARTIN, M. D.,
DENNIS J. MURPHY,
JOHN A. OSGOOD,

Board of Health.

MEDICAL INSPECTION OF PRIVATE SCHOOLS.

Number of calls	242
Number examined	6234
Number advised	1517
Number excluded	21

The following will give a general idea of the character of the cases examined:

Carious teeth	125 cases
Not vaccinated	112 "
Adenoids	67 "
Enlarged tonsils	52 "
Defective vision	15 "
Conjunctivitis	11 "
Impacted wax in ear	8 "
Blepharitis	6 "
Pediculosis	6 "
Ringworm	6 "
Adenitis	4 "
Ac. Otitis Media	4 "
Headache	3 "

Two cases each of strabismus, eczema, sore throat, impetigo, hordeolum, eye strain, everted ears, chorea.

One case each of anemia, fainting spells, deviated septum, staphylococcus infection of skin, nephritis, mitral regurgitation, acute tonsillitis, follicular tonsillitis, acne, chalazion, sore throat exposed to scarlet fever, exposure to scarlet fever, bronchitis, rhinitis atrophic, nasal obstruction, impaired speech.

The School Physicians made recommendations as follows:

Advised storm doors, and had children receive daily exercise.

Had children remove storm shoes while in schoolroom.

Advised a daily recess and airing of room.

Had seats regulated to various positions best suited to pupil.

Had thermometer placed in schoolroom.

INSPECTOR OF MILK.

TO THE LOWELL BOARD OF HEALTH,
LOWELL, MASS.

Gentlemen:

I have the honor to present the report of the Department of Milk and Vinegar Inspection for the twelve months, beginning January 1, 1910:

Two thousand, two hundred and ninety-nine (2299) samples of milk have been analyzed chemically for the percentage of total solids and butterfat. All samples seized from wagons were closely examined for added water, preservatives, and coloring matter. Several samples were suspected of containing added water, but owing to the lack of proper apparatus, no sample could be proven to be adulterated in this manner.

The average quality, of all samples seized from wagons, was well above the standard required by law. During the months of June, July, August, and September, some of the milkmen seemed to have difficulty in keeping the milk up to the standard, and as a result, eighty-two notices were sent to milkmen during these months, that their milk was not quite up to the standard. This condition, I believe, was brought about by the fact that the cows were required to obtain their food from the pastures entirely, and were not grained or fed in the barn. During the hot, dry spells the cattle were forced to seek shade and water in the swamps and brooks, and compelled to protect themselves from flies and other insects. These pests, annoying and exciting the cattle would tend to decrease the amount and quality of the milk. Occasional complaints were received at this office that certain milk had a bad odor and taste. In most cases it was found that this was due to a cow eating wild onions, rye or other food that gave off an odor just previous to the milking.

BACTERIA

"Within a short time many cities have awakened to the wisdom and necessity of establishing a bacterial standard for milk. As there are as yet no standard methods for the bacterial and microscopic examination of milk, each laboratory has had to work out its own methods." The method used in this laboratory is one discovered by Dr. Francis H. Slack. It is both quick and accurate, and although it requires careful manipulation, it does not require the accuracy as to detail, or large amount of expensive apparatus, used in plating.

The process in brief is as follows:—The milk Sample is thoroughly shaken, a 2 c.c. tube filled, stoppered, inserted in the proper numbered receptacle in an aluminum disk, and centrifuged for ten minutes, at a speed of 2000–3000 revolutions per minute. Thus in each tube the sediment from a known quantity of milk is obtained and may be spread over a given area. A space of four square centimeters is most convenient, being the right size to allow the thorough emulsion of the sediment with a drop of sterile water, and to permit drying into a thin even smear. The smear is then stained with methylene blue, washed, dried, and a drop of immersion oil placed on the plate.

"The microscopical examination of a milk sediment thus easily obtained, reveals more than any other single test. It shows the character of the milk, the approximate number and the morphology of the bacteria, and the presence of pus or streptococci."

The above information given in greater detail was obtained from a pamphlet issued by the Boston Board of Health Laboratory.

During the latter part of the year 1910, approximately two hundred samples of milk were examined for bacteria. The average count of the samples was high, some of them counting 5,000,000 bacteria per cubic centimeter, and even higher. The average samples counted 800,000 bacteria per cubic centimeter. During the extreme cold spells in December the counts went down to 150,000 per c.c. Most of the milkmen show a desire

to lower their bacterial count, and numerous samples have been brought into the office by them to be tested in this way.

INSPECTION OF STORES AND WAGONS

During the month of May and part of June, nearly every grocery store, bakeshop, market, drug store, liquor store, etc., in the City of Lowell, were visited to see if the milk was sold according to the Rules and Regulations of the Board of Health. Approximately five hundred stores were visited, and of those visited four hundred and seventy-one obtained licenses. Most of the places were willing to conform to the rules and regulations of the Board of Health, and those who stopped selling because of the requirements of the Board of Health soon fell into line and are now firm supporters of the new method of selling the milk.

The first two weeks of November were devoted to the inspection of milk wagons. Numerous violations of the Board of Health rules were found. As soon as the milkmen saw that the rules were to be enforced the necessary action was taken to conform to the rules.

COURT CASES

There were twelve prosecutions during the year. One case was placed on file. There was one conviction for carrying offal on a milk wagon, one for filling bottles with milk on the street, and one for selling oleomargarine for butter. There were eight convictions, for sale or possession with intent to sell of milk, not of good standard quality.

VINEGAR

All samples of vinegar taken were found up to the standard in solids and acidity. There were twenty-six samples examined during the year.

BUTTER

Eleven licenses were issued to sell oleomargarine. There was one prosecution for selling oleomargarine for butter, and for selling without a license.

Number of licenses to dealers conveying milk by carriage or otherwise for the purpose of sale	119
Number of registrations of storekeepers engaged in the sale of milk	471
Oleomargarine licenses	10
Total number of licenses and registrations	600
Received for licenses and registrations	\$300
Stores inspected	460
Stores visited	517
Total number of warnings sent to milkmen	111
Total number of prosecutions	12

STANDING OF MILK

The following is the average standing of the samples of milk analyzed each month:—

TOTAL SOLIDS		
	From Wagons	From Stores
January	14.34	
February	13.38	14.84
March	12.99	13.22
April	12.98	12.96
May	13.35	
June	12.93	
July	12.99	
August	12.65	
September	12.71	
October	13.02	
November	13.10	12.40
December	13.40	

The amount of milk sold in Lowell each day and the places from which it comes:

	Cans 8½ Quarts each
Dracut	914
Chelmsford	842
Tewksbury	322
Pelham, N. H.	250
Westford	251
Lowell	102
Tyngsboro	216
Billerica	150
Hudson, N. H.	188
Dunstable	178
Andover	40
Carlisle	58
Nashua, N. H.	80
Groton	85

3,676 cans—31,246 qts.

Skim milk	200 cans
Buttermilk	160 cans
Cream	985 qts.

Respectfully submitted,

MELVIN F. MASTER,

Inspector of Milk and Vinegar.

INSPECTOR OF MEATS AND PROVISIONS.

BOARD OF HEALTH,
LOWELL, MASS.

Gentlemen:—

The following is a report of the work done by the Inspector of Meats and Provisions for the year 1910:—

INSPECTION OF STORES

Number of inspections made of stores	7,633
Number of instances where conditions in the stores were unsatisfactory.....	203
Number of pieces of meat condemned as unfit for food .	24
Number of fowl condemned as unfit for food	46
Number of veal condemned as immature	4
Number of swine condemned for not being stamped.....	4
Number of veal condemned for not being stamped	3

INSPECTION OF MEAT AT TIME OF SLAUGHTER

Number of carcasses of swine	391
Number of carcasses of calves	17
Number of carcasses of cattle	6
Number of carcasses of swine condemned as tuberculous	2
Number of carcasses of calves condemned as immature .	1
Number of carcasses of cattle condemned as tuberculous	2

INSPECTION OF MILK PLANTS AND DAIRIES

Number of inspections made of milk plants	66
Number of milk plants found to be in a satisfactory condition	10
Number of inspections made of dairies	121
Number of dairies found to be in a satisfactory condition	9

Six cases of glanders in horses were reported to, and condemned by the Cattle Bureau of the State Board of Agriculture.

C. A. HAMBLET, V. S.,
Meat Inspector.

REPORTS OF PLUMBING INSPECTORS.

BOARD OF HEALTH,
LOWELL, MASS.

Gentlemen:—

The following is a report of the plumbing work done for the year ending December 31, 1910:

Whole number of applications for permits to do plumbing	933
New buildings	143
Old buildings	790
	— 933
Total number of visits	2,799

Respectfully,

STEPHEN GARRITY,

Plumbing Inspector.

BOARD OF HEALTH,
LOWELL, MASS.

Gentlemen:—

The following is a report of the special inspection of tenement property on Market, Worthen, Dummer, Jefferson, Little, Lewis, Hanover, Suffolk, Fenwick, and Adams Streets:

Tenements	676
Stores	126
Rooms	2,761
Bakeries	7
Notices sent	119
Notices complied with	115

The remaining four notices were partly complied with, and an extension of time was allowed.

Respectfully,

WILLIAM H. CONNORS,

Plumbing Inspector.

Notices to abate the following nuisances were sent from the office during the year 1910:

Filthy privies	3
Leaky roofs.....	1
Broken water closet bowls	1
No water supply to tenements	21
Untrapped refrigerator waste pipes	1
Manure in yard	6
Filthy tenements	5
Pigs in cellars	2
Hens in cellars	2
Filthy bakeries	3
Ceilings whitewashed	41
Improper material for sink waste pipe.....	1
Improper drainage.....	2
Mattresses on roof	2
Filthy piggery	3
Surface drainage	4
Plaster off ceilings	11
Filthy water closets.....	22
Clogged sink waste pipes	16
No water supply to water closets	78
Leaky sink waste pipes.....	19
Leaky sink traps	8
Untrapped sinks	14
Contents of dry well overflowing	5
No cover on sink traps	0
Insufficient supply of water to water closets	19
Clogged water closets	40
Leaky water closets.....	19
Leaky water closet tanks	4
No cover on water closet traps	2
Dilapidated woodwork around water closets	20
Ashes and rubbish in cellars	112
Rubbish in yards	180
Filthy barns	2

Leaky water supply pipes	19
Clogged drains	29
Open drains	4
Defective joints in sink waste pipes	39
Permission granted T. F. Fay to clean dry wells	16
Permission granted T. F. Fay to clean vaults ...	82
Permission granted F. A. Fox to clean dry wells.	1
Permission granted F. A. Fox to clean vaults ...	24

CASES OF CONTAGIOUS DISEASES REPORTED

	1910	1909	1908	1907
Diphtheria, including Croup	164	205	243	521
Scarlet Fever	304	100	82	134
Measles	1,194	333	639	139
Typhoid Fever	186	91	188	73
Smallpox	0	0	1	0
Cerebro-Spinal Meningitis	6	7	14	22
Infantile Paralysis	8	0	0	0
	<hr/> 1,862	<hr/> 736	<hr/> 1,167	<hr/> 889

DEATHS FROM CONTAGIOUS DISEASES

	1910	1909	1908	1907
Diphtheria, including Croup	20	34	21	45
Scarlet Fever	38	9	2	5
Measles	20	4	5	5
Typhoid Fever	22	11	24	9
Smallpox	0	0	0	0
Cerebro-Spinal Meningitis	6	5	12	20
Infantile Paralysis	0	0	0	0
	<hr/> 106	<hr/> 63	<hr/> 64	<hr/> 84

In 1910 there were 579 fumigations, 118 of which were for Tuberculosis. 1,815 rooms in all were fumigated.

There were 3,543 vaccinations.

32 Undertakers' Licenses were granted during the year.

CASES OF DIPHTHERIA AND CROUP REPORTED TO THE BOARD OF HEALTH FOR THE YEAR 1910

	Diphtheria		Croup	
	Cases	Deaths	Cases	Deaths
January	25	3	2	2
February	11	0	1	1
March	11	2	3	1
April	14	0	2	0
May	10	2	0	0
June	17	0	0	0
July	3	2	0	0
August	3	0	0	0
September	11	1	0	0
October	11	0	1	1
November	14	0	0	0
December	23	4	2	1
	<hr/>	<hr/>	<hr/>	<hr/>
	153	14	11	6

Mortality of Diphtheria, 9.2 per cent.

Mortality of Croup, 54 per cent.

MORTALITY OF DIPHTHERIA

	1894.....	33.0 per cent.
	1895.....	44.0
Antitoxin Treatment	1896.....	43.0
	1897.....	23.0
	1898.....	23.0
	1899.....	18.0
	1900.....	10.0
	1901.....	12.0
	1902.....	9.5
	1903.....	10.5
	1904.....	11.0
	1905.....	6.0
	1906.....	9.0
	1907.....	7.5
	1908.....	7.0
	1909.....	12.5
	1910.....	9.2

LOWELL, MASS., January 1, 1911.

TO THE MEMBERS OF THE BOARD OF HEALTH,
LOWELL, MASS.

Gentlemen:—

I have the honor to submit to you the following report of the work done in the Bacteriological Laboratory during the year ending December 31, 1910:

DIPHTHERIA

EXAMINATION OF CULTURES

	For Diagnosis		For Release		No	Whole
	Positive	Negative	Positive	Negative	Result	Number
January	19	50	27	30	2	128
February	10	49	14	17	1	91
March	10	55	11	10	0	86
April	13	41	22	13	0	89
May	7	50	15	16	0	88
June	14	33	21	19	2	89
July	0	19	0	5	0	24
August	5	29	0	2	0	36
September	7	39	2	8	2	58
October	7	37	4	11	0	59
November	9	26	4	9	3	51
December	27	47	18	24	4	120
	128	475	138	164	14	919

TUBERCULOSIS

EXAMINATION OF SPUTUM

	Positive	Negative	Whole Number
January	11	32	43
February	10	34	44
March	6	41	47
April	6	31	37
May	8	24	32
June	11	27	38
July	6	24	30
August	10	34	44
September	9	41	50
October	15	28	43
November	11	35	46
December	11	24	35
	<hr/> 114	<hr/> 375	<hr/> 489

TYPHOID FEVER

EXAMINATION OF BLOOD FOR WIDAL REACTION

	Positive	Negative	No Result	Total
January	7	19	0	26
February	4	11	0	15
March	2	8	1	11
April	16	16	0	32
May	7	12	0	19
June	3	16	0	19
July	5	12	2	19
August	9	31	2	42
September	77	132	0	209
October	20	45	1	66
November	14	33	0	47
December	6	12	0	18
	<hr/> 170	<hr/> 347	<hr/> 6	<hr/> 523

MALARIA

Seven specimens of blood were examined for the presence of the Malarial Parasite, two of which gave a positive result.

One recent case was that of a young man who was seized by a violent attack of vomiting, with high fever, December 26th. His history showed that he had returned from Bombay, India, two months previously, where he had had Malaria. An examination of his blood showed the presence of large numbers of the tropical type of the Malarial Parasite.

GENERAL EXAMINATIONS

A number of examinations were made of purulent conjunctivitis and urethral exudates for the presence of Gonorrhoea. Bacteriological examinations of various other pathological materials were also made.

THOMAS B. SMITH, M. D.

Bacteriologist.

Our expense at the Lowell Hospital for 1910 was \$501.36 as compared with \$232.64 in 1909.

Marie McAndrews	\$ 16.00
Kate Leary	36.00
Philip Sullivan	6.00
Arthur Russell	16.71
Susan Hanaford	78.00
Margaret Lyle	46.00
Florence McLean	12.00
William O'Hare	42.00
William Landry	28.00
Celia Landry	28.00
James Maguire	2.00
Bertha Belanger	50.00
Madeline Daly	84.00
Margaret McPhillips	13.47
Nellie Primeau	3.81
Lillian Primeau	4.10
Sadie Martin	5.27
Nellie Cullinane	30.00
	<hr/>
	\$501.36

SCARLET FEVER

	1910	1909	1908	1907
Cases reported	304	100	82	134
Deaths	38	9	2	5
Per cent. total cases	12	9	2	4

	Reported Cases	Deaths
January	8	0
February	5	1
March	24	5
April	42	8
May	58	9
June	44	8
July	29	2
August	10	2
September	12	1
October	22	0
November	29	1
December	21	1
	<hr/> 304	<hr/> 38

MEASLES

	Reported Cases	Deaths
January	207	3
February	352	8
March	301	6
April	179	1
May	97	1
June	39	1
July	12	0
August	1	0
September	4	0
October	0	0
November	1	0
December	1	0
	<hr/> 1,194	<hr/> 20

TYPHOID FEVER

	Reported Cases	Deaths
January	9	2
February	3	1
March	2	1
April	10	0
May	9	0
June	3	3
July	5	2
August	8	0
September	94	6
October	20	3
November	13	4
December	10	0
	<hr/> 186	<hr/> 22

TYPHOID FEVER

	Population	Reported Cases	Deaths
Total 1910.....	106,294	186	22
Total 1909.....	96,380	91	11
Total 1908.....	96,380	188	24
Total 1907.....	96,380	73	9
Total 1906.....	96,380	30	7
Total 1905.....	94,889	56	17
Total 1904.....	104,402	48	17
Total 1903.....	101,959	238	26
Total 1902.....	99,574	83	16
Total 1901.....	94,969	70	18
Total 1900.....	94,969	85	17
Total 1899.....	90,114	57	17
Total 1898.....	87,000	119	24

	Population	Reported Cases	Deaths
Total 1897.....	87,000	105	18
Total 1896.....	95,700	178	36
Total 1895.....	84,359	172	33
Total 1894.....	83,026	282	50
Total 1893.....	81,694	160	53
Total 1892.....	80,361	373	75
Total 1891.....	79,029	293	77
Total 1890.....	77,696	454	123

A decrease from 1.59 per thousand inhabitants to .21 in twenty-one years.

PLACES OF DEATH

Ward 3	2
Ward 4	3
Ward 5	1
Ward 6	1
Ward 8	1
Ward 9	1
Chelmsford St. Hospital	1
Lowell Hospital	8
Lowell General Hospital	1
St. John's Hospital	3

22

Males, 11 Females, 11 Oldest, 57 years Youngest, 4 years

DEATHS FROM CHOLERA INFANTUM

	1910	1909	1908	1907
January	0	0	1	2
February	0	0	0	1
March	0	0	0	0
Total first quarter	0	0	1	3

ANNUAL REPORT

	1910	1909	1908	1907
April	0	0	1	1
May	0	0	0	0
June	8	1	5	1
	—	—	—	—
Total second quarter	8	1	6	2
July	63	19	48	34
August	19	25	30	34
September	3	16	18	13
	—	—	—	—
Total third quarter	85	60	96	81
October	2	3	7	7
November	0	0	0	0
December	0	0	0	0
	—	—	—	—
Total fourth quarter	2	3	7	7
Total for year	95	64	110	93

VITAL STATISTICS

	1910	1909	1908	1907
Deaths, male	1,045	922	994	1,006
Deaths, female	1,055	963	969	1,057
	—	—	—	—
	2,100	1,885	1,963	2,063
Children under 1 year	607	494	554	537
Children under 2 years ..	735	593	663	621
Children under 5 years ..	835	671	750	699
Per cent. of total deaths				
under 5 years	39.8	35.6	38.2	33.9

BIRTHPLACE

	Of Deceased	Of Parents
Lowell	1,014	199
Massachusetts	137	226
Other States	244	507
Ireland	307	1,067
Canada	196	1,053
Great Britain	103	307
Other Countries	90	603
Unknown	9	238
	<hr/>	<hr/>
	2,100	4,200

PLACES OF DEATH

Ward 1	149
Ward 2	216
Ward 3	161
Ward 4	189
Ward 5	189
Ward 6	409
Ward 7	182
Ward 8	141
Ward 9	136
Chelmsford St. Hospital	79
Lowell Hospital	84
Lowell General Hospital	88
St. John's Hospital	76
Emergency Hospital	1
	<hr/>
	2,100

PLACES OF INTERMENT

St. Patrick's Cemetery	809
Edson	424
Westlawn	36
Lowell	71
St. Joseph's	532
St. Peter's	44
Other Cemeteries	6
Removed from City	178

 2,100

Still Births during year, 136.

DEATH RATE

	Year	Population	Deaths	Death Rate
Population, census	1890	77,696	1959	25.21
estimated ...	1891	79,029	1972	24.95
estimated ...	1892	80,361	2224	27.67
estimated ...	1893	81,694	2094	25.62
estimated ...	1894	83,026	1775	21.28
census	1895	84,359	1857	22.01
estimated ...	1896	85,700	1901	22.18
estimated ...	1897	87,000	1855	21.33
estimated ...	1898	87,000	1808	20.78
estimated ...	1899	90,114	1848	20.50
census	1900	94,969	1849	19.47
estimated ...	1901	94,969	2038	21.45
estimated ...	1902	99,574	1935	19.43
estimated ...	1903	101,959	1898	18.61
estimated ...	1904	104,402	1736	16.61
census	1905	94,889	1899	20.02
census	1906	96,380	1918	19.90
census	1907	96,380	2063	21.40
census	1908	96,380	1963	20.36
census	1909	96,380	1885	19.55
census	1910	106,294	2100	19.76

[illegible]

[illegible]

CAUSES OF DEATH.	TOTAL FOR 1910.	AGE.																SEX.										
		Under 1 year.	1 year and under 2 years.	2 years and under 3 years.	3 years and under 4 years.	4 years and under 5 years.	Total under 5 years.	5 years and under 10 years.	10 years and under 15 years.	15 years and under 20 years.	20 years and under 25 years.	25 years and under 30 years.	30 years and under 35 years.	35 years and under 40 years.	40 years and under 45 years.	45 years and under 50 years.	50 years and under 55 years.	55 years and under 60 years.	60 years and under 65 years.	65 years and under 70 years.	70 years and under 75 years.	75 years and under 80 years.	80 years and under 85 years.	85 years and under 90 years.	90 years and over.	Males.	Females.	
GENERAL DISEASES—Continued.																												
35 Scrofula																												
36 Syphilis	1										1																1	
3 Tertiary																												
4 Hereditary	1	1					1																				1	
37 Bleorrhagia of the adult																												
38 Gonococcal infections of the child																												
39 Cancer and other malignant tumors of the buccal cavity	2																	1		1							1	1
40. Cancer and other malignant tumors of the stomach and liver	27								1					2	5	3	4	6	3	3	1	2					8	19
41 Cancer and other malignant-tumors of the peritoneum, intestines, and rectum	6															1	2	2				1						6
42 Cancer and other malignant tumors of the genital organs of the female	14										2	1		2	1	3	1	3	1	1								14

[illegible]

CAUSES OF DEATH.	AGE.																								SEX.	
	TOTAL FOR 1910.																								Males.	Females.
	Under 1 year.	1 year and under 2 years.	2 years and under 3 years.	3 years and under 4 years.	4 years and under 5 years.	Total under 5 years.	5 years and under 10 years.	10 years and under 15 years.	15 years and under 20 years.	20 years and under 25 years.	25 years and under 30 years.	30 years and under 35 years.	35 years and under 40 years.	40 years and under 45 years.	45 years and under 50 years.	50 years and under 55 years.	55 years and under 60 years.	60 years and under 65 years.	65 years and under 70 years.	70 years and under 75 years.	75 years and under 80 years.	80 years and under 85 years.	85 years and under 90 years.	90 years and over.		
DISEASES OF THE RESPIRATORY APPARATUS—Concluded.																										
89 Affections of the thyroid body.....																		1				1				
90 Bronchitis, acute	39	21	5	2	1	68														1	1	1				
91 Bronchitis, chronic																		1		3	2		1			
92 Broncho pneumonia	26	14	4	1	2	47	2				1			1	2			3	3	1	3					
93 Pneumonia	33	12	5	3	1	54	1	2	2	4	6	5	9	9	10	11	7	9	8	5	9	7	3	0		
94 Pleurisy	9	1				1	1				1	1			1	2	1				1					
95 Pulmonary congestion and apoplexy	2					2									2					2	1					
96 Gangrene of the lung																										
97 Asthma																		1								
98 Emphysema, pulmonary																										
99 Other diseases of the respiratory apparatus (phthisis excepted)	1					1					2		2			1					1					
Total respiratory apparatus	103	47	14	6	4	74	4	2	2	4	10	7	11	11	16	17	10	15	18	12	19	8	4	0		

CAUSES OF DEATH.	AGE.																			SEX.						
																				Males.	Females.					
	Total for 1910	Under 1 year.	1 year and under 2 years.	2 years and under 3 years.	3 years and under 4 years.	4 years and under 5 years.	Total under 5 years.	5 years and under 10 years.	10 years and under 15 years.	15 years and under 20 years.	20 years and under 25 years.	25 years and under 30 years.	30 years and under 35 years.	35 years and under 40 years.	40 years and under 45 years.	45 years and under 50 years.	50 years and under 55 years.	55 years and under 60 years.	60 years and under 65 years.	65 years and under 70 years.	70 years and under 75 years.	75 years and under 80 years.	80 years and under 85 years.	85 years and under 90 years.	90 years and over.	
V. DISEASES OF THE DIGESTIVE APPARATUS.																										
100 Affections of the mouth and its adnexa																										
101 Affections of the pharynx.	3	1	1				1													1		1				2
102 Affections of the esophagus	1																	1								1
103 Ulcer of the stomach.																										
104 Other affections of the stomach (cancer excepted)	20	5	4				9					1						1	3	2	1		1	1	1	10
105 Diarrhœa and enteritis (under two years)	258	231	27				258																			143
105a Diarrhœa and enteritis, chronic.																										115
106 Diarrhœa and enteritis (two years and over)	31		6	4		2	12	1		1	1	1	1	4	1		1	2	1	2			2	1		14
107 Parasites, intestinal																										17
108 Hernia, intestinal obstructions	16	5					5			1	1		2		1		1	1	4							11

CAUSES OF DEATH.	TOTAL FOR 1910	AGE.																	SEX.									
		Under 1 year.	1 year and under 2 years.	2 years and under 3 years.	3 years and under 4 years.	4 years and under 5 years.	Total under 5 years.	5 years and under 10 years.	10 years and under 15 years.	15 years and under 20 years.	20 years and under 25 years.	25 years and under 30 years.	30 years and under 35 years.	35 years and under 40 years.	40 years and under 45 years.	45 years and under 50 years.	50 years and under 55 years.	55 years and under 60 years.	60 years and under 65 years.	65 years and under 70 years.	70 years and under 75 years.	75 years and under 80 years.	80 years and under 85 years.	85 years and under 90 years.	90 years and over.	Males.	Females.	
DISEASES OF THE DIGESTIVE APPARATUS—Concluded.																												
1109 Other affections of the intestines	6	1					1	1								2				1	1						2	4
1110 Icterus, grave	3	1		1			2					1															1	2
1111 Hydatid tumors of the liver	1												1														1	1
1112 Cirrhosis of the liver	17	1					1						1	1	1	3	7			2	2					15	2	
1113 Biliary calculi	1															1											1	1
1114 Other affections of the liver	12	1					1		1		2	1	1	1	1		1	1			3					4	8	
1115 Affections of the spleen																												
1116 Peritonitis, simple (puerperal excepted)	15	2			2		4			2	1	4	1	1				1		2						9	6	
1117 Other affections of the digestive apparatus (cancer and tubercle excepted)	1																					1						
1118 Appendicitis and abscess of the iliac fossa.	14							2	2	3	4	1	1		1											11	3	
Total digestive apparatus	399	247	38	5	2	2	294	4	2	6	8	6	10	8	5	6	11	7		12	12	1	2	3	2	0	222	177

[illegible]

[illegible]

[illegible]

[illegible]

CAUSES OF DEATH.	TOTAL FOR 1910.	AGE.																		SEX.						
																				Males.	Females.					
		Under 1 year.	1 year and under 2 years.	2 years and under 3 years.	3 years and under 4 years.	4 years and under 5 years.	Total under 5 years.	5 years and under 10 years.	10 years and under 15 years.	15 years and under 20 years.	20 years and under 25 years.	25 years and under 30 years.	30 years and under 35 years.	35 years and under 40 years.	40 years and under 45 years.	45 years and under 50 years.	50 years and under 55 years.	55 years and under 60 years.	60 years and under 65 years.	65 years and under 70 years.	70 years and under 75 years.	75 years and under 80 years.	80 years and under 85 years.	85 years and under 90 years.	90 years and over.	
166 Other accidental traumas	27	1	1	1	1	2	3	3	3	2	4	3	1	1	1	2	1	1	1	3	1	1	1	1	23	4
167 Burns and scalds	11	1	4	1	3	1	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	5
168 Burns by corrosive substances	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
169 Insolation	4	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1
170 Freezing	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
171 Electrical disturbances	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
172 Accidental submersion	9	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8	1
173a Inanition	24	23	1	1	1	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	10
174 Absorption of deleterious gases (suicide excepted)	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
175 Other acute poisonings	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
176 Other external violence	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
Total affections, etc.	107	26	5	1	4	1	37	6	2	6	3	6	7	5	3	5	5	4	5	5	6	1	1	1	76	31

CAUSES OF DEATH.	AGE.																				SEX.						
																					Males.	Females.					
TOTAL FOR 1910.	Under 1 year.	1 year and under 2 years.	2 years and under 3 years.	3 years and under 4 years.	4 years and under 5 years.	Total under 5 years.	5 years and under 10 years.	10 years and under 15 years.	15 years and under 20 years.	20 years and under 25 years.	25 years and under 30 years.	30 years and under 35 years.	35 years and under 40 years.	40 years and under 45 years.	45 years and under 50 years.	50 years and under 55 years.	55 years and under 60 years.	60 years and under 65 years.	65 years and under 70 years.	70 years and under 75 years.	75 years and under 80 years.	80 years and under 85 years.	85 years and under 90 years.	90 years and over.			
NIV. ILL-DEFINED DISEASES.																											
177 Dropsy																											
178 Sudden death																											
179 Non-specified or ill-defined causes of death .								1					1													2	
Total ill-defined diseases								1					1													2	
TOTAL FROM ALL CAUSES. . . .	2100	607	125	47	34	22	35	45	20	39	57	67	74	84	75	96	92	85	117	125	97	86	62	35	9	1045	1055

COLLECTION OF ASHES

	1910	1909	1908	1907
Jan.	2,021 loads	2,015 loads	2,062 loads	2,161 loads
Feb.	1,681	1,881	2,010	1,644
March	2,609	2,264	2,247	2,096
April	2,214	2,389	2,321	2,285
May	1,875	1,969	1,953	2,071
June	1,731	1,725	1,739	1,564
July	1,570	1,624	1,610	1,586
Aug.	1,591	1,477	1,439	1,445
Sept.	1,571	1,422	1,524	1,330
Oct.	1,736	1,789	1,750	1,792
Nov.	2,101	1,962	1,829	1,959
Dec.	2,651	2,236	2,234	2,043
	<hr/>	<hr/>	<hr/>	<hr/>
	23,351	22,753	22,718	21,976

COST OF COLLECTION

	Labor Pay Roll
1891	\$ 8,000.19
1892	9,857.42
1893	11,542.94
1894	12,087.93
1895	10,591.40
1896	11,311.25
1897	12,793.15
1898	11,209.70
1899	10,903.30
1900	10,665.36
1901	10,651.28
1902	10,454.80
1903	9,691.50
1904	10,714.95

1905	11,035.00
1906	10,771.75
1907	10,747.55
1908	11,212.60
1909	11,431.05
1910	12,986.64

405 loads of paper were collected.

AMOUNT OF REFUSE BURNED AT CREMATOR IN 1910

1475 tons refuse from meat and fish markets.
 29 dogs.
 52 cats.
 64 mattresses.
 19 bundles bed clothing.
 31 pillows.
 35 hens.
 7 pigs.

NUMBER OF LOADS SWILL COLLECTED

	1910	1909	1908	1907
Jan.	396 loads	362 loads	404½ loads	453½ loads
Feb.	343	336	371½	382
March	376	370	367	388
April	351	343	352	374½
May	365	339	348½	378
June	384	373	373½	341¼
July	364½	376	385½	414⅞
Aug.	467½	466	488	441½
Sept.	542½	549½	490½	485
Oct.	430	448½	414½	459½
Nov.	388½	388	349	366
Dec.	438½	386½	394	386½
	<hr/> 4,846½	<hr/> 4,737½	<hr/> 4,738½	<hr/> 4,870⅓

Total collections for 1910	4,846½ loads
1909	4,737½
1908	4,738½
1907	4,870⅓
1906	4,653½
1905	4,323
1904	4,352
1903	4,031
1902	4,035
1901	3,861
1900	4,217

SWILL ACCOUNT

	1910	1909	1908	1907
January	\$ 440.62	\$ 425.62	\$ 489.43	\$ 531.28
February	378.75	391.26	435.67	464.99
March	421.25	427.50	441.26	471.24
April	397.50	395.00	420.00	459.37
May	411.26	391.25	416.88	454.99
June	437.54	429.38	446.90	415.33
July	410.58	433.76	458.16	515.68
August	531.83	535.64	581.26	551.86
September	633.11	635.01	584.39	606.22
October	489.98	520.64	491.89	571.91
November	438.11	446.28	421.26	441.26
December	495.61	435.01	472.51	466.89
Swill Licenses ..	525.00	460.00	480.00	405.00
	<hr/>	<hr/>	<hr/>	<hr/>
	\$6,011.14	\$5,926.35	\$6,139.61	\$6,356.02

457½ loads were charged to the City Farm in 1910.

100 Swill Licenses were issued during the year.

Cost of Collecting Swill Labor Pay Roll	Disposition of Swill	Income from Swill	Cost of Burning	Amount Burned	Total Cost Collection and Cremation of Swill and Garbage
1884 No Analysis	Sold	\$2,671.85			
1885 "	"	3,711.38			
1886 "	"	4,711.38			
1887 "	"	3,604.00			
1888 "	"	2,739.85			
1889 "	"	2,948.52			
1890 "	"	3,166.00			
1891 \$6,000.00	"	3,945.57			
1892 5,593.02	Burned	3,239.92	Cost of Cremator (\$8,000.00)		\$13,593.02
1893 7,022.66	"		7,670.69	3500 tons	14,693.43
1894 7,122.00	"		5,742.77	3486 "	12,864.69
1895 7,035.97	"		3,662.53	2750 "	10,698.50
1896 7,064.67	"		3,543.34	2810 "	10,408.01
1897 7,234.76	Part Burned	2,369.99	2,612.07	2629 "	9,846.07
1898 7,758.20	and	2,445.40	1,644.21	874 "	9,302.41
1899 7,193.30	Part Sold	3,547.00	1,397.86	105 "	8,591.16
1900 7,083.30	All Sold	{ Cash 3,368.00 Hay 840.72	1,094.65	109 "	8,177.95

1901	\$7,027.75	All Sold	{ Cash \$2,835.20 Buggy 83.00 Manure 32.00 Hay 780.04	\$1,081.14	{ 35 tons 317 tons Markets	\$ 7,404.64
1902	7,259.00	"	{ Cash 3,244.72 Hay 883.77	1,166.69	{ 11 tons Swill 415 tons Markets	8,425.69
1903	8,178.93	"	{ Cash 3,299.87 Hay 1,584.72 Manure 100.95	1,191.86	{ 600 tons Markets	9,370.79
1904	8,324.70	"	{ Cash 3,507.41 Hay 2,047.84	992.92	{ 303 tons Markets	9,317.62
1905	8,318.50	"	{ Cash 3,656.12 Hay 2,079.38	1,101.20	{ 664 tons Markets	9,419.70
1906	8,721.80	"	{ Cash 3,590.37 Hay 2,472.53	1,762.45	{ 1046 tons Markets	10,484.25
1907	8,596.00	"	Cash 6,356.02	1,489.80	{ 1195 tons Markets	10,085.80
1908	8,607.90	"	Cash 6,139.61	1,432.71	{ 1128 tons Markets	10,040.61
1909	8,459.30	"	Cash 5,926.35	1,421.26	{ 1626 tons Markets	9,880.56
1910	8,838.44	"	Cash 6,011.14	1,435.54	{ 1475 tons Markets	10,273.98

1910 FINANCIAL STATEMENT—EXPENDITURES

PAY ROLLS—OFFICE

January	\$640.25
February	616.00
March	616.00
April	770.00
May	607.84
June	602.00
July	766.00
August	641.00
September	641.00
October	770.00
November	627.50
December	770.00
	<hr/>
	\$8,067.59

PAY ROLLS—YARD

January	\$2,755.33
February	2,633.11
March	2,639.54
April	3,325.06
May	2,595.18
June	2,566.25
July	3,396.63
August	2,714.26
September	2,704.01
October	3,381.76
November	2,781.28
December	3,588.02
Jas. Groves for pay not collected in 1909 ...	2.75
	<hr/>
	\$35,083.18

ANALYSIS OF PAY ROLLS OF 1910 AS COMPARED WITH 1909

	1910	1909	Increase	Decrease
Agent	\$ 1,825.00	\$ 1,825.00		
Contagion Inspector	1,277.50	1,277.50		
Plumbing Inspectors	2,191.00	2,191.00		
Health Inspector	1,095.50	1,134.00		\$ 38.50
Meat Inspector .	939.00	728.00	211.00	
Registrar	714.59	704.25	10.34	
Vaccination Clerk	25.00		25.00	
Ashes	12,986.64	11,431.05	1,555.59	
Swill	8,838.44	8,459.30	379.14	
Dumps and Alleys	4,118.65	3,909.30	209.35	
Cremator	908.88	913.93		5.05
Stable	2,142.75	2,172.00		29.25
Fumigation	891.08	882.84	8.24	
Blacksmith	1,469.63	1,440.01	29.62	
Foreman	1,099.00	1,081.50	17.50	
Market Refuse ..	1,812.73	1,780.00	32.73	
Yardman	812.63	806.43	6.20	
T. F. Garvey by decision of court		1,351.98		1,351.98
Jas. Groves for pay not collect- ed Oct. 9, 1909	2.75		2.75	
	<hr/>	<hr/>	<hr/>	<hr/>
	\$43,150.77	\$42,088.09	\$2,487.46	\$1,424.78
Total Increase			\$1,062.68	

ANALYSIS OF BILLS, 1910

OFFICE SUNDRIES

Advertising	\$ 23.59
Bacteriological Department	141.57
Express	16.65
Fumigating Supplies	6.00
Medical Services	458.00
Printed Supplies	214.25
Sundries	207.18
Telephone	8.98
Printing Annual Report	70.00
Stamps and Envelopes	87.00
Enamel Signs	70.50
Services of Stenographer at Tannery Hear- ings	27.00
Legal Services	15.00
Vaccine	154.75
Mass. Association B. of H.	8.00
	<hr/> \$1,508.47

CARE OF CONTAGIOUS DISEASES, ACTS OF 1907,

CHAPTER 386

City of Lynn	\$ 54.43
City of Boston	401.45
City of Holyoke	55.14
City of Worcester	82.24
City of Somerville	61.86
City of Malden	235.28
City of Cambridge	175.29
City of Fall River	27.00
Medical Services	454.00
Provisions	178.31
Medicine	105.85

Burials	\$ 27.00	
Wages	50.00	
Nursing	42.00	
Transportation	1.30	
Lowell General Hospital	56.00	
Lowell Hospital	501.36	
Chelmsford Street Hospital	526.22	
St. John's Hospital	379.00	
North Reading State Sanatorium	701.33	
State Infirmary Tewksbury	1,064.40	
Rutland Sanatorium	304.60	
Culture Taking	91.00	
	<hr/>	\$5,575.06
		<hr/>
		\$7,083.53

YARD SUNDRIES, 1910

Blacksmiths' Supplies	\$ 416.22
Cremator	526.66
Canvas Covers	68.50
Coal	101.47
Electric Light	18.64
Hay	2,720.08
Harness Repairing and Supplies	309.97
New Harnesses	95.00
Hardware	81.89
Meal	218.31
Oats	3,019.04
Straw	140.88
Sundries	198.98
Gas	49.23
Telephone	1.26
Laundry	45.00
Use of Horses	149.00
New Horses	1,585.00

New Body for Garbage Wagon	\$ 63.00
Repairing Garbage Wagon	31.60
Veterinary Services ..	42.50
Water	78.94
Fumigating Supplies	161.60
New Buggy	225.00
Insurance	25.00
New Signs for Swill Carts.....	19.50
Smoke Test Machine	18.75
Printed Supplies	5.75
Lumber	44.66
Repairing Wagons	94.31
	<hr/>
	\$10,555.74

MILK DEPARTMENT SUNDRIES, 1910

Advertising	\$ 2.85
Freight and Express	7.15
Repairs	18.40
Printing	37.20
Stamps	8.00
Refractometer	99.00
Glass Bottles and Corks	51.45
Telephone	43.17
Sundries	120.80
	<hr/>
	\$388.02

INCOME TRANSFERRED TO GENERAL FUND

HEALTH DEPARTMENT

Swill Sold	\$5,486.14
Swill Licenses	525.00
Waste Paper	25.00
Use of Telephone .....	.65
Use of Trip Book	1.62
Care of Contagious Diseases at Lowell Hos- pital	10.00
Dr. T. B. Smith for Use of Laboratory Material	3.00
Sale of Chaff	7.50
Town of Westford	28.05
City of Lynn.....	4.00
Commonwealth of Massachusetts	341.50
City of Haverhill	9.25
D. Smith for Old Iron.....	21.35
	<hr/>
	\$6,463.06

MILK DEPARTMENT

Milk Licenses	\$307.50
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Total to General Fund 1910	\$6,770.56 (This includes Milk Dept.)
Total to General Fund 1909	6,763.73
Total to General Fund 1908	6,418.50
Total to General Fund 1907	6,808.20
Total to General Fund 1906	4,566.66
Total to General Fund 1905	3,727.41
Total to General Fund 1904	4,137.31
Total to General Fund 1903	4,085.12
Total to General Fund 1902	6,103.87
Total to General Fund 1901	4,585.26
Total to General Fund 1900	3,647.03

SUMMARY 1910

	Appropriation from Revenue	Department Transfers	Receipts Cash	Total Appropriated	Total Expenditures	Balances to 1911
HEALTH OFFICE						
Salaries of Board . . .					\$1,500.00	
Salary of Dr. Smith					600.00	
Pay Rolls, office . . .					8,067.59	
	\$10,167.59			\$10,167.59	\$10,167.59	
Bills, office	7,080.37		\$3.16	7,083.53	7,083.53	
YARD						
Pay Roll	35,083.18			35,083.18	35,083.18	
Bills	10,033.61	\$519.38	2.75	10,555.74	10,555.74	
MILK DEPARTMENT						
Salaries	2,204.25			2,204.25	2,204.25	
Sundries	388.02			388.02	388.02	
MEDICAL INSPECTION PRIVATE SCHOOLS						
	600.00			600.00	429.00	\$171.00
	\$65,557.02	\$519.38	\$5.91	\$66,082.31	\$65,911.31	\$171.00

COST OF HEALTH DEPARTMENT, 1910

EXPENDITURES

Salaries of Board	\$ 1,500.00
Salary of Bacteriologist	600.00
Pay Rolls, office	8,067.59
Pay Rolls, yard	35,083.18
Bills, office	7,083.53
Bills, yard	10,555.74
Salaries, Milk Department	2,204.25
Bills, Milk Department	388.02
Medical Inspection Private Schools	429.00
	<hr/>
	\$65,911.31

APPROPRIATIONS

Office Salaries	\$10,167.59
Office Sundries	7,080.37
Yard Labor	35,083.18
Yard Sundries	10,033.61
Milk Department Salaries	2,204.25
Milk Department Sundries	388.02
Medical Inspection Private Schools	600.00
	<hr/>
	\$65,557.02
Cash Receipts	5.91
Transfers	519.38
	<hr/>
	\$66,082.31
Balance	171.00
	<hr/>
Total	\$65,911.31

FOLLOWING IS A SCHEDULE OF THE PROPERTY IN
CONTROL OF THE BOARD OF HEALTH

1.	Brown Horse, "Billy"	20 years	\$ 40.00
2.	Bay Horse, "Peter"	21 years	15.00
3.	Black Horse, "Torrent"	11 years	150.00
4.	Bay Horse, "Lawrence"	10 years	225.00
5.	Bay Horse, "Baldy"	22 years	75.00
6.	Bay Horse, "Fred"	23 years	75.00
7.	Mouse Skin Horse, "Patsy"	6 years	300.00
8.	Brown Mare, "Maggie"	23 years	5.00
9.	Bay Horse, "Duke"	24 years	25.00
10.	Gray Mare, "Grace"	18 years	60.00
11.	Black Horse, "Nigger"	19 years	25.00
12.	Gray Horse, "Jerry"	9 years	300.00
13.	Gray Mare, "Mollie"	21 years	50.00
14.	Bay Horse, "Ned"	17 years	70.00
15.	Bay Horse, "Moxie"	16 years	60.00
16.	Black Horse, "Tom"	14 years	60.00
17.	Sorrel Horse, "Doctor"	19 years	30.00
18.	Bay Horse, "Frank"	15 years	60.00
19.	Bay Mare, "Dolly"	15 years	65.00
20.	Roan Horse, "Tom"	9 years	300.00
21.	Bay Mare, "Grace"	13 years	125.00
22.	Gray Mare, "Daisy"	11 years	200.00
23.	Black Horse, "Joc"	11 years	150.00
24.	Gray Horse, "Grover"	5 years	350.00
25.	Black Horse, "Ned"	9 years	275.00
26.	Black Horse, "Tom"	10 years	200.00
27.	Black Mare, "Bessie"	11 years	100.00
28.	Bay Mare, "Peggy"	11 years	125.00
29.	Bay Horse, "Jerry"	10 years	225.00
30.	Bay Mare, "Jessie"	10 years	150.00
31.	Gray Horse, "Harry"	10 years	300.00
32.	Gray Horse, "Dick"	10 years	300.00
33.	Gray Horse, "Sam"	10 years	100.00
34.	Gray Horse, "Jim"	10 years	100.00
35.	Gray Mare, "Hattie"	6 years	350.00
			<hr/>
			\$5,040.00

Two horses were shot during the year, two were sold, and five new ones purchased.

WAGONS AND SLEDS

1 Traverse Runner Sleigh.....	\$ 65.00
1 Ambulance	175.00
1 Hospital Wagon	100.00
10 Double Ash Carts at \$70	700.00
4 Single Ash Carts	150.00
10 Double Ash Sleds at \$60	600.00
4 Single Ash Sleds at \$50	200.00
10 Single Swill Sleds at \$50	500.00
15 Single Swill Wagons.....	800.00
2 Single Refuse Wagons at \$125	250.00
2 Coupes	425.00
2 Paper Wagons at \$100	200.00
2 Sleighs	80.00
2 Pungs at \$35	70.00
1 Concord Wagon	100.00
2 Moyer Buggies	150.00
2 Goddard Buggies	325.00
1 Covered Sleigh	20.00
2 Paper Sleds at \$75	150.00
	<hr/>
	\$5,060.00

HARNESSES AND ROBES

3 Whips	\$ 1.50
1 Set Double Harness for Ambulance	25.00
2 Sets Single Harnesses for Ambulance ...	25.00
16 Single Harnesses	256.00
15 Double Harnesses at \$12.50	187.50
43 Halters at \$.25	10.75
4 Horse Covers at \$3.....	12.00
4 Woolen Robes	16.00
37 Baker Stable Blankets.....	40.00
5 Street Blankets	20.00
1 Rubber Lap Robe	2.00
37 Surcingles at \$.40	14.80
5 Curry Combs and Brushes	2.50
13 Canvas covers for ash carts	6.00

5 Mane Brushes	\$ 1.50
3 Under Harness Street Blankets	10.00
3 Large Canvases	8.00
2 Sponges	1.50
8 Collars	16.00
4 Collar Pads	5.00
3 Buffalo Robes	20.00
9 Harness Pads	1.00
8 Zinc Pads	1.00
1 Sheepskin	2.00
4 Sets of Reins	5.00
6 Shaft Lugs	2.00
2 Sets Hold-Back Straps	1.00
10 Saddle Girths	4.00
33 Stall Straps	7.00
25 String Bells	12.50
6 Light Harnesses	50.00
43 Square Shovels	17.00
29 Swill Chisels	17.50
Horse Medicine	3.00
3 Fly Nets	
3 Blankets for Contagious Coupe	3.00
4 Rakes	1.50
6 Dump Rakes	1.50
6 Boxes Harness Dressing	1.50

\$ 811.55

SUMMARY

Horses	\$ 5,040.00
Wagons and Sleds	5,060.00
Harnesses and Robes	811.55
Miscellaneous	200.00
Carpenter Shop	300.00
Blacksmith Shop	350.00
Smallpox Hospital	500.00

\$12,261.55

Year	Popula- tion	Expenditures	Revenue	Net Cost	City's Valuation	Taxation Per Capita
1894	83,026	\$a57,073.73	\$ 318.43	\$56,755.03	\$69,091,536	.63
1895	84,359	46,324.04	570.80	45,753.24	68,885,732	.54
1896	85,700	45,587.11	265.57	45,321.54	69,910,472	.53
1897	87,000	48,551.84	2,369.99	46,181.85	70,389,280	.53
1898	87,000	41,026.78	3,229.02	37,779.76	70,977,303	.43
1899	90,114	40,830.23	3,796.05	37,034.18	71,255,587	.41
1900	94,969	b46,266.11	3,647.03	42,619.0	71,529,515	.44
1901	94,969	46,673.41	4,585.26	42,088.15	71,674,588	.44
1902	95,574	c54,815.33	6,103.87	48,711.46	71,903,757	.48
1903	101,959	d46,168.01	4,085.12	42,682.89	72,004,028	.41
1904	104,402	e46,451.97	4,137.31	42,314.66	71,614,907	.40
1905	94,889	f51,707.39	3,727.41	47,979.98	71,645,718	.50
1906	96,380	54,096.00	4,566.66	49,529.34	74,325,775	.51
1907	96,380	57,763.79	6,808.20	50,955.59	76,079,750	.53
1908	96,380	g57,342.61	6,418.50	50,924.11	77,858,891	.53
1909	96,380	56,346.33	6,763.73	h49,582.60	79,176,837	.51
1910	106,294	h65,911.31	h6,770.56	h59,140.75	80,094,803	.56

a. Small-pox and Swill Cremation, \$12,708.25

b. Small-pox, \$4,739.67

c. Small-pox, 6,626.20

d. Small-pox, 1,000.00

e. Small-pox, 1,010.02

f. Small-pox, 3,297.08

g. Small-pox, 291.64

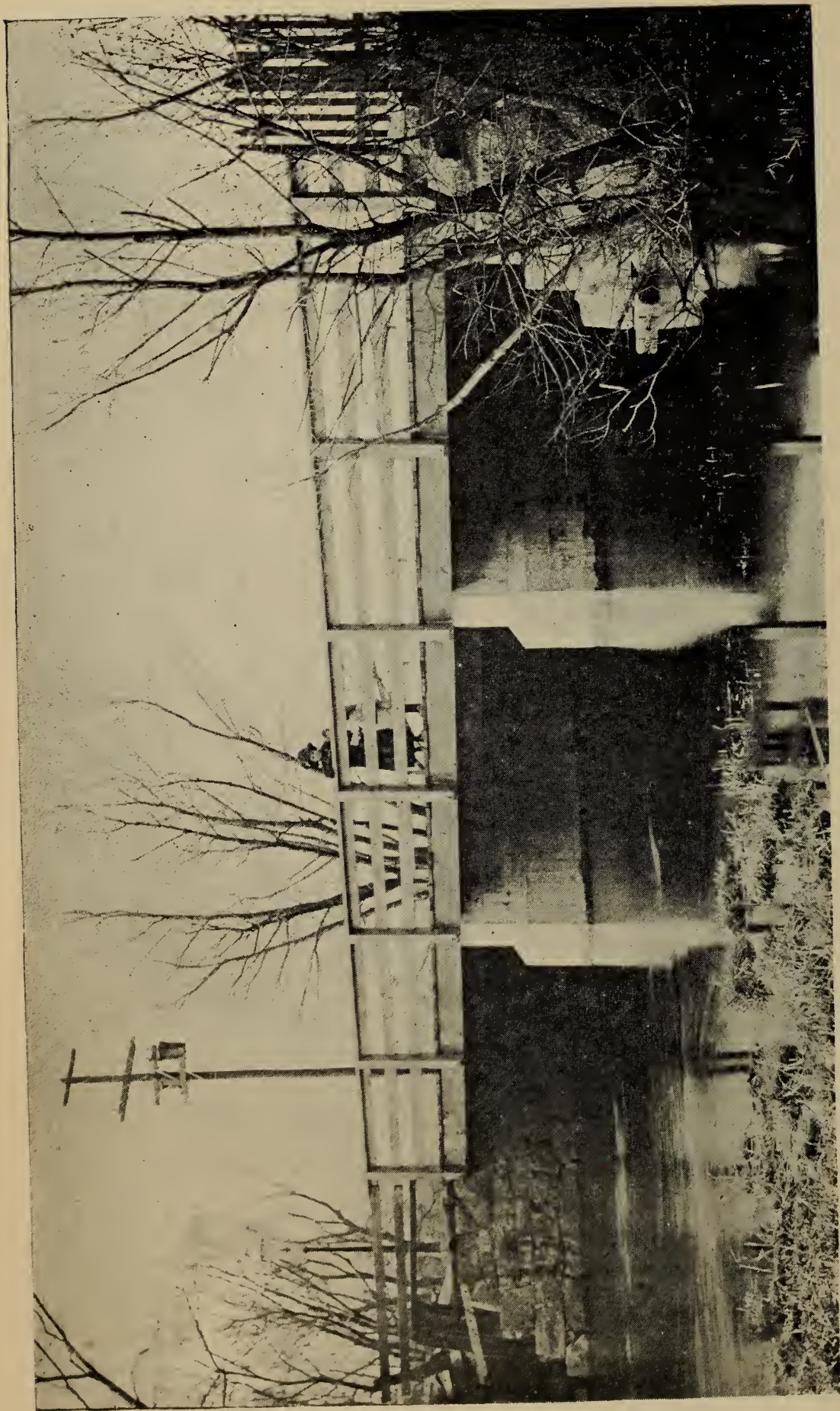
h. This includes expenditures and revenue of Milk Dept..

* TABLE SHOWING RAINFALL IN INCHES BY MONTHS FOR THIRTY-TWO YEARS, 1879-1910.

YEAR	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1879	2.475	3.762	5.013	4.030	2.279	5.709	4.379	6.176	2.176	1.434	3.364	4.465	45.262
1880	4.359	3.944	3.005	2.375	2.676	1.702	6.518	3.156	1.529	1.823	1.841	5.581	36.519
1881	5.538	3.151	7.210	1.855	4.274	4.900	2.496	1.731	2.730	1.962	4.282	4.253	44.182
1882	4.521	5.773	3.019	1.674	4.904	2.789	1.677	0.984	7.313	2.312	1.011	2.027	38.010
1883	2.923	3.405	1.885	1.895	4.640	2.036	3.583	0.909	1.487	5.292	1.730	2.623	32.418
1884	4.914	5.793	5.013	4.110	3.684	3.064	3.198	3.977	0.924	1.945	2.328	5.149	44.139
1885	4.856	4.095	1.022	3.606	3.589	4.293	6.026	6.098	1.581	4.841	5.183	2.811	48.001
1886	6.765	6.535	3.338	1.966	3.587	1.859	3.512	3.128	3.963	2.781	4.901	4.444	46.829
1887	5.720	5.182	4.738	3.046	1.644	2.608	5.425	10.931	2.228	3.116	3.270	4.547	53.445
1888	4.601	4.303	6.519	3.782	3.890	2.809	3.057	4.857	7.966	6.780	5.983	5.379	39.915
1889	5.037	1.710	1.938	3.830	3.889	2.592	6.102	3.979	3.266	4.268	6.929	3.366	46.756
1890	2.766	3.767	6.833	1.987	5.660	3.530	3.447	4.856	4.457	7.705	1.584	4.466	51.607
1891	7.041	3.840	5.953	3.563	2.289	3.659	2.968	1.966	1.806	2.926	1.913	3.204	41.131
1892	5.389	2.742	2.643	0.628	5.861	4.444	2.321	4.304	1.973	1.378	5.829	1.106	38.618
1893	2.392	7.703	2.439	2.946	4.900	2.414	2.696	3.944	2.293	3.825	1.933	5.460	42.945
1894	3.349	3.502	1.268	3.757	4.359	0.372	2.998	0.925	3.027	3.641	3.519	3.838	34.375
1895	3.306	1.747	2.656	4.569	1.782	2.631	2.659	2.017	2.230	6.674	8.165	3.172	41.332
1896	2.243	4.647	6.510	1.335	2.316	2.683	3.786	2.759	9.066	2.995	3.023	1.126	42.201
1897	4.551	2.958	4.146	2.248	4.945	6.106	4.619	5.630	3.033	0.592	6.487	5.320	50.439
1898	8.124	3.457	1.652	5.201	3.053	3.649	2.930	8.226	1.970	7.846	6.447	2.744	54.289
1899	3.690	5.017	7.950	1.500	2.100	2.713	4.116	2.111	3.663	1.987	2.714	1.683	39.244
1900	5.451	10.119	6.566	2.156	3.785	2.710	2.648	3.730	4.363	3.326	6.181	3.033	54.068
1901	1.720	1.056	5.756	10.567	7.678	1.489	4.776	3.267	3.282	3.434	2.792	8.553	54.370
1902	2.968	6.265	5.281	5.475	2.366	2.107	3.563	5.159	6.290	5.288	0.856	6.204	51.110
1903	3.386	3.957	5.900	3.691	0.818	9.180	2.621	3.676	1.745	4.461	1.527	3.011	43.973
1904	4.838	2.438	2.648	9.316	2.983	3.995	1.827	3.207	5.512	1.282	1.506	2.330	41.882
1905	6.958	1.705	3.708	2.171	1.293	5.179	0.591	4.498	6.389	1.327	2.251	3.862	39.932
1906	2.434	2.589	5.966	3.002	5.999	4.802	6.135	3.473	1.432	3.382	3.085	4.218	45.517
1907	2.770	2.390	2.149	3.638	2.578	3.033	4.367	1.356	8.525	4.492	5.772	4.735	45.605
1908	3.201	4.962	2.709	1.955	4.185	0.926	3.042	4.288	0.344	2.566	1.140	3.034	32.352
1909	4.166	5.787	0.477	5.530	2.773	2.132	2.517	2.460	4.213	1.203	2.646	4.078	37.982
1910	4.406	5.872	0.744	2.572	1.308	4.369	1.930	3.207	2.038	1.182	3.472	2.030	33.130

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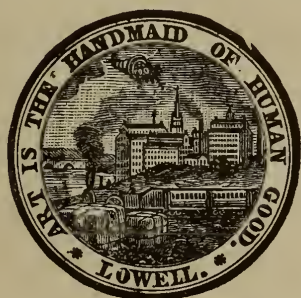
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MARCH 30, 1911, 4 P. M. PLAIN-ST. BRIDGE OVER HALE'S BROOK. REBUILT WITH CONCRETE PIERS. LOOKING NORTHWEST.
FENCE UNFINISHED.

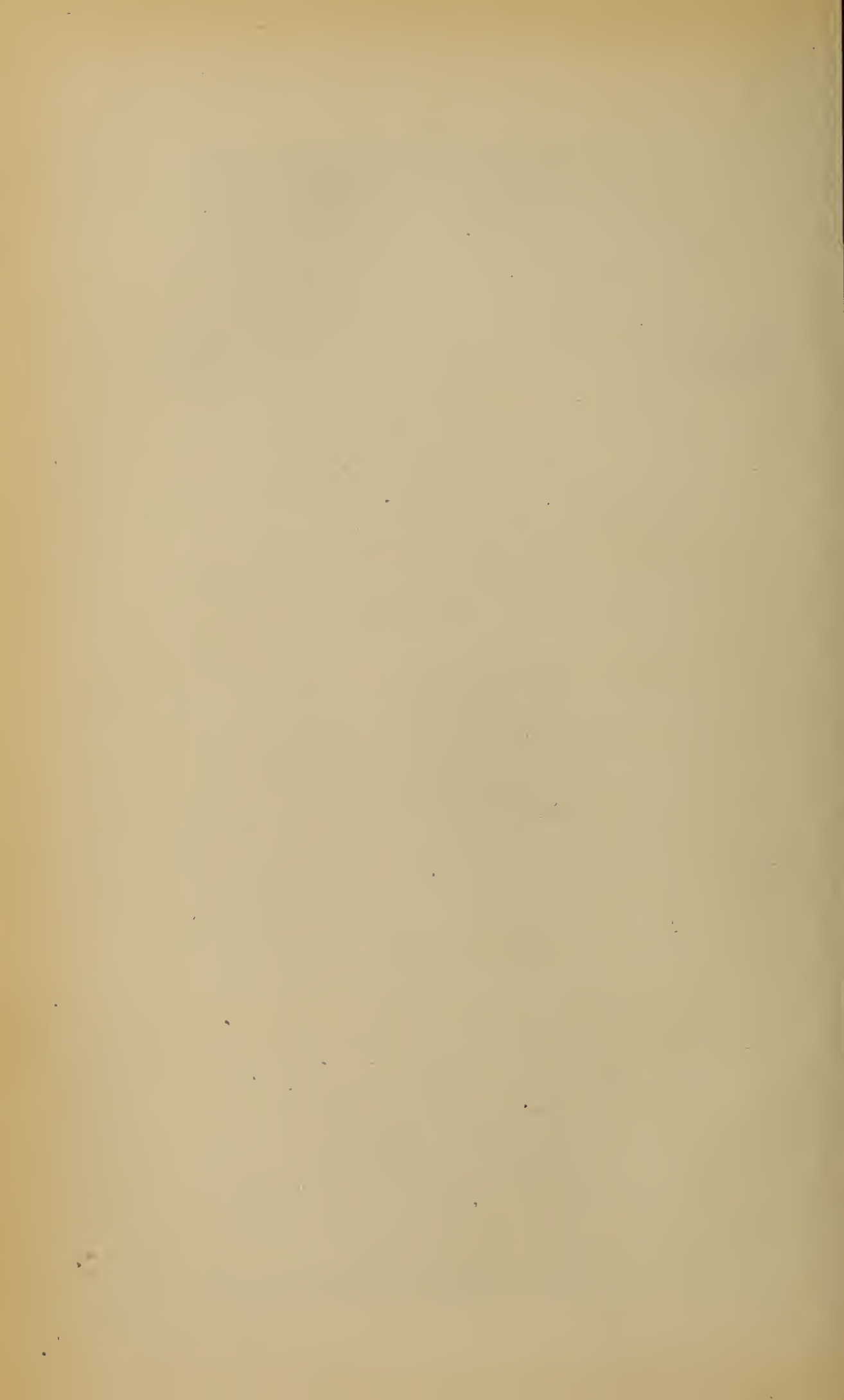
ANNUAL REPORT
OF THE
Superintendent of Streets
OF THE
CITY OF LOWELL

For the Year 1910



Tables Showing in Detail Expenditures and Work
Done by the Different Divisions of the
Street Department.

LOWELL, MASS.
THE LAWLER PRINTING COMPANY,
29 PRESCOTT STREET,
1911.



REPORT

Office of Superintendent of Streets:

Lowell, Mass., March 20, 1911.

TO THE HONORABLE CITY COUNCIL:—

GENTLEMEN:—In compliance with the City Ordinances, herewith respectfully is submitted the annual report upon the several departments under the direction and control of the Superintendent of Streets, for the year 1910.

Respectfully submitted,

NEWELL F. PUTNAM,
Superintendent of Streets.

STREET AND SEWER DEPARTMENTS

ORGANIZATION 1910

Superintendent of Streets

NEWELL F. PUTNAM

Assistant Superintendent Streets

GEORGE W. HARTWELL

Assistant Superintendent Sewers

FRANK W. LAZELLE

Clerk

CLARENCE H. RAYMOND

Bookkeeper

FRANKLIN T. WILSON

Inspector of Sewers

SAMUEL D. BUTTERWORTH

Clerk

E. VERA MULLANEY

Foremen

Streets

Blessington, John B.
Bowers, John
Clough, Charles H.
Enwright, John F.
Gardner, William G.
Gilmore, William
Morrison, Thomas W.
McHugh, James T.
Nerny, John J.
Sprague, Volney

Sewers

Gagne, Pierre
Tague, Thomas F.
Tighe, Owen
Crowley, Thomas F.
Lee, Bernard
Smith, Thomas E.
Thompson, Walter E.
McCann, Patrick

Engineering Department

City Engineer

GEORGE BOWERS

Assistant, Streets

WILLIAM A. FAVOR

Assistant, Sewers

GEORGE A. NELSON

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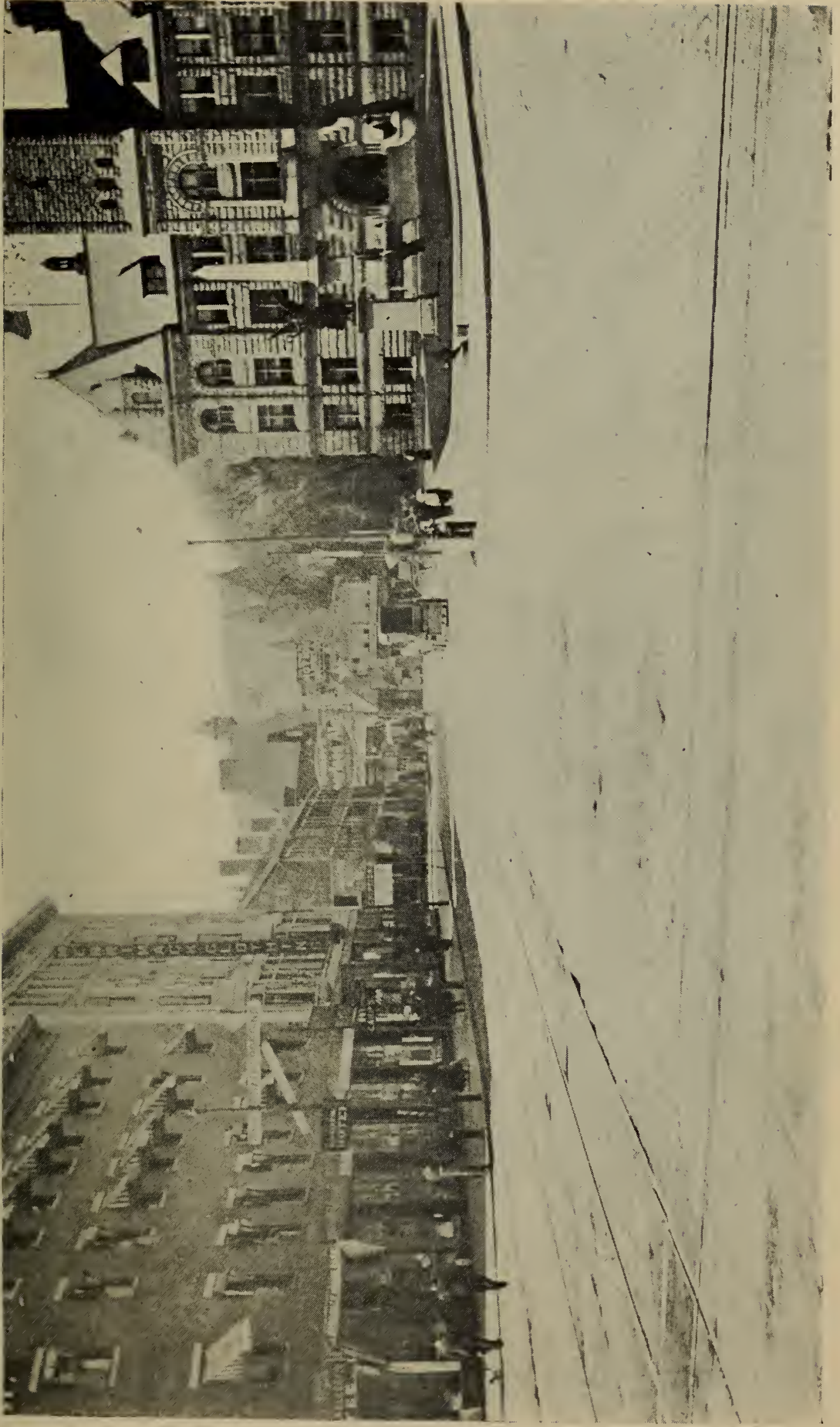
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SUPERINTENDENT OF STREETS

TABLE SHOWING THE DIFFERENT SUPERINTENDENTS FROM THE
YEAR OF INCORPORATION OF THE CITY OF LOWELL.

1836	Alva Mansur
1837-1838	Chester A. Blodgett
1839 1842	Luther Eames
1843-1845	William A. Swan
1846-1849	Joseph Griffin
1850	Abiel Rolfe (to April 1)
1850-1857	William M. Smith (from April 1, 1850)
1858-1866	Wilder Bennett
1867-1872	Luther Richards
1873 1884	John C. Woodward
1885-1886	Charles H. Hanson
1887-1888	Edward Cawley
1889-1891	Horace P. Beals
1892-1895	Robert E. Crowley
1896	Cleveland J. Cheney (to Feb. 19, 1897)
1897	Charles Callahan (from Feb. 20 to March 9.)
1897	George L. Fowler (from March 20)
1898-1900	Cleveland J. Cheney
1901	Patrick F. Brady
1902-1904	Laforest Beals (resigned May 24, 1904)
1904	Frederick W. Farnham appointed May 25.)
1905-1908	Charles J. Morse
1909-1910	Newell F. Putnam



MAY 10. 1910, 11.22 A. M. OLD PAVEMENT, MONUMENT SQUARE. LOOKING WEST FROM FREIGHT RAILROAD CROSSING.

STREET PAVING

JANUARY 1, 1911

	Miles	Total Miles	Sq. Yards	Total Sq. Yards
Asphalt.....		1.930		47,307.98
Asphaltina.....		1.660		29,472.49
Bitulithic.....		1.310		23,506.82
Brick.....		0.177		3,843.60
Hassam.....		0 437		9,831.53
Granite Block, Hassam	1.768		44,987.88	
Granite Block, old.....	14.194		266,550.72	
Granite Block, on base.	0.329		5,365.53	
Granite Block, grouted on base.....	0.038		833.90	
Total Granite Block Pavement.....		16.329		317,738.03
Tar Concrete.....		0.160		3,379.20
Wood Block.....		0.256		4,686.60
Total		22.259		439,766.25

TABLE OF ANNUAL APPROPRIATIONS

NAME OF APPROPRIATIONS	Balances from 1909	Annual Appropriation	Additional Appropriation	Loans	Dept. Transfers	Cash Receipts	Total Receipts	Expended	Return'd to Gen. Treas. Fund	Balances to 1911
STREETS—Regular										
Salaries		\$ 4,000 00	\$ 19				\$ 4,000 19	\$ 4,000 19		
Wages		110,000 00	8,650 40			\$161 14	119,569 16	119,569 16		
Other expenses		40,000 00	440 00		\$ 757 62	12 19	68,117 91	67,987 66	\$130 25	
New sidewalks		5,000 00	544 13		27,665 72		5,544 13	5,544 13		
		\$159,000 00	\$9,634 72		\$28,423 34	\$173 33	\$197,231 39	\$197,101 14	\$130 25	
STREETS—Special										
Paving Merrimack and Bridge Sts.	\$2,649 63									
Paving Merrimack and other streets				\$68,000 00			\$ 2,649 63	\$ 1,396 03	\$1,253 60	
Macadamizing streets ..				25,600 00		\$1 00	68,001 00	62,746 40	5,254 60	
Congress and Billerica Sts. Bridges				10,000 00			25,600 00	24,510 93	1,089 07	
Widening Lawrence St..				20,400 00		1 75	10,001 75	2,757 53		\$ 7,244 22
Shaw St. Extension ..			\$ 989 84			6 75	20,406 75	8,502 95		11,903 80
Church Street Storm Guards			800 00				989 84			959 84
							800 00	192 97	607 03	
	\$2,649 63		\$1,789 84	\$124,000 00		\$9 50	\$128,448 97	\$100,106 81	\$8,204 30	\$20,137 86
WATERING STREETS										
Wages		\$ 5,000 00			\$287 00		\$ 5,287 00	\$ 4,967 66	\$319 34	
Other expenses		15,000 00	\$441 63		430 50		15,872 13	15,872 13		
		\$20,000 00	\$441 63		\$717 50		\$21,159 13	\$20,839 79	\$319 34	
SEWER MAINTENANCE										
Wages		\$12,000 00	\$1,737 71		\$1,855 88	\$8 24	\$15,601 83	\$15,601 83		
Other expenses		3,000 00			3,972 24		6,972 24	4,268 35	\$2,703 89	
		\$15,000 00	\$1,737 71		\$5,828 12	\$8 24	\$22,574 07	\$19,870 18	\$2,703 89	
SEWER CONSTRUCTION										
Regular	\$ 823 04			\$50,000 00		\$39 16	\$50,039 16	\$49,820 82	\$218 34	
Wigginville							823 04	773 02	50 02	
	\$ 823 04			\$50,000 00		\$39 16	\$50,862 20	\$50,593 84	\$268 36	

PERSONAL PROPERTY

Schedule of Personal Property Belonging to the Street Department.

Stock and Tools in Storeroom:

250 10-ft. fuzes....	\$ 11 52
450 8-ft. fuzes.....	18 00
150 4-ft. fuzes.....	4 78
12 boxes exploders.....	21 90
4 small oilers.....	1 00
3 ball bearing collar pads.....	3 00
148 pkgs. toilet paper.....	8 14
8 whisk brooms.....	1 60
2 doz. balls twine....	5 00
2¼ doz. dandy brushes.....	6 25
3¼ doz. horse brushes.....	8 00
2 doz. curry combs.....	7 00
1 doz. bits.....	8 00
9 sets breeching hooks	2 25
1 doz. roller dees	1 80
3 pkgs harness rivets.....	30
3 sets gate hinges.....	1 25
14 padlocks.....	21 00
14 hose clamps	1 70

PERSONAL PROPERTY—Continued.

2 doz. sleigh bells	\$ 12 00
1 pair rubber boots.....	3 00
11 pkgs Gold Dust.....	1 10
51 bars soap.....	2 50
40 sponges.....	38 50
10 lbs. asbestos.....	1 00
2 rolls blasting wires.....	1 00
1 Jenkin's valve.....	1 00
14 old bits.....	4 50
2 boxes Hart packing.....	11 00
2 boxes spiral packing.....	12 00
1 box cancos packing	5 00
1 box washers for steam rollers..	1 00
1 box ring packing	10 00
26 gaskets.....	7 50
11 belt lacings.....	1 10
500 tags	1 00
1 doz. gauge glasses	1 75
1½ doz. hames fasteners.....	3 60
30 lbs. rainbow packing.....	19 50
1 side patent leather.....	20 00
2 boxes shoe thread	3 00
8 boxes harness soap	4 00
102 cans metal polish.....	23 55
5 axe blades	2 50

PERSONAL PROPERTY—Continued.

90 bottles horse medicines.....	\$ 43 55
1 doz. bandages.....	2 25
1 steam gauge.....	2 00
1 50-ft. tape.....	2 50
2 crow bars	1 00
9 wooden rollers	2 25
4 doz. Sampson draught springs..	144 00
10 lbs. shims and wedges.....	1 00
10 drinking dippers.....	50
3 valves.....	1 50
4½ sides harness leather	48 00
1 pail lubricator	1 50
6 large pails axle grease.....	10 20
7 small pails axle grease.....	5 95
½ bbl. soda	1 88
2 brass valves	1 50
3 kettles.....	3 00
2 scythes	1 75
12 lbs. waste ...	1 08
6 doz. push brooms.....	24 00
8 doz. sparrow brooms.....	26 88
50 lbs. scrap leather.....	2 00
11½ doz. lanterns.....	46 00
8 doz. red lantern globes	60 00
2 old striking hammers.....	1 50

PERSONAL PROPERTY—Continued.

3 old watering pots.....	\$ 1 50
6 doz. pick handles	11 10
1 doz. axe handles	2 75
1 bag hair.....	5 00
26 feed pails.....	12 00
13 sparrow pans.....	6 50
22 water pails	3 00
15 cirsingles.....	11 25
4 cart hubs.....	3 50
3 large wrenches	1 50
15 rakes.....	9 38
7 forks	4 65
4 long handle square shovels	3 50
84 No. 7 square shovels.....	63 00
8 hoes	4 67
15 No. 4 square shovels.....	16 00
14 No. 2 round pointed shovels ..	11 62
2 No. 2 long handles square shovels	1 50
4 sets blocks and falls.....	6 00
350 ft. garden hose	18 00
3 whips.....	2 00
1 battery	5 00
20 feet steam hose.	2 00
3 gals creolin	2 25
6 cart saddles	2 50

PERSONAL PROPERTY—Continued.

3 leather fly nets	\$ 8 25
7 plow points.....	3 50
5 cans motor grease	3 00
1 Hartford shoe.....	48 00
3 inner tubes.....	29 10
1 set skid chains	5 00
1 stillson wrench	3 00
10 pairs hip rubber boots.....	20 00
1 pair knee rubber boots	3 50
2 2½-in. valves.....	4 00
5 1-in. valves.....	7 00
1 1½-in. valve.....	1 60
1 2-in. valve.....	1 80
200 feet 1½-in. iron pipe.....	18 00
11 lengths 2½-in. hydrant hose...	60 00
	<hr/> \$ 1,185 30

Yard:

12 tool boxes.....	\$ 120 00
400 grade stakes.....	18 00
1 set wheels for moving derrick..	25 00
2 stoves.....	5 00
9 old rubbish barrels.....	18 00
24 new rubbish barrels.....	100 00
2 Archibald cart wheels.....	56 00

PERSONAL PROPERTY—Continued.

2 stone drags.....	\$ 6 00
1 set platform scales.....	275 00
2 cart jacks.....	2 00
1 oil tank.....	40 00
1 bbl. cylinder oil.....	16 25
80 gals. kerosene.....	8 00
1 bbl. machine oil.....	10 00
30 gals. Haviland oil.....	4 50
200 loads sand.....	400 00
60 tons pea stone.....	66 00
7 machine brooms.....	70 00
1 hand derrick.....	75 00
3 clocks.....	1 50
4 hand rollers.....	8 00
17 sand screens.....	34 00
1 steam plant.....	200 00
6 tons coal.....	36 00
4 ash cans.....	8 00
2 flat boats.....	2 00
82 bbls. road asphalt.....	364 08
9,000 sidewalk bricks.....	90 00
5,000 (4 in.) paving blocks.....	229 55
3 ladders.....	3 00
11 wooden wheelbarrows.....	9 00
12 iron wheelbarrows.....	20 00

PERSONAL PROPERTY—Continued.

2 sod cutters	\$ 1 00
4 drags	4 00
3 signs ("dynamite")	2 25
	—————\$ 2,327 13

Stable:

10 tons hay	\$ 220 00
1,000 bus. oats	400 00
2 barn barrows	2 00
200 lbs. fine salt	3 00
1,000 lbs rock salt	6 00
800 lbs. shorts	12 00
48 halters	9 60
2 hay cutters	5 00
6 hay forks	4 50
29 curry combs	7 25
29 brushes	8 00
3 canvas covers	6 00
48 feed baskets	14 40
	—————\$ 697 75

Carpenter Shop:

35,000 ft. spruce lumber	\$ 750 00
600 ft. oak lumber	54 00
700 ft. birch boards	84 00

PERSONAL PROPERTY—Continued.

400 ft. maple boards	\$ 40 00
100 ft. fence rail	3 00
50 fence pickets	2 00
6 crow bars	6 00
1 claw bar	50
4 shovels	2 00
3 post hole shovels	1 50
1 doz. cement wheelbarrows	24 00
3 axes	3 00
6 striking hammers	2 00
2 claw hammers	1 00
2 cross cut saws	6 00
3 hand saws	6 00
12 sled poles	18 00
4 lifting hooks	4 00
1 extension ladder	7 00
1 set falls and rope	5 00
1 grindstone	5 00
3 adzes	4 50
1 boring machine	5 00
3 cant hooks	4 00
2 hand screws	1 50
2 monkey wrenches	1 00
3 drag planks	3 00
21 kegs spikes	52 50

PERSONAL PROPERTY—Continued.

5 kegs nails	\$ 12 50
4 doz. spokes	7 92
1 roll tar paper	2 00
5 new cart bodies	300 00
200 lbs. white lead	16 50
15 gals turpentine	15 60
20 gals. paint oil	10 60
75 lbs. red lead	6 00
8 gals. cart paint	4 00
benches, vise, etc	10 00
	<hr/> \$ 1,480 62

Fletcher Street Ledge:

3,500 ft. old flagging	\$ 700 00
3,700 new paving blocks	169 80
600,000 old paving blocks	12,000 00
	<hr/> \$ 12,869 80

Office Furniture, Supplies, etc.

1 roll top desk	\$ 10 00
1 old safe	5 00
4 chairs	2 00
1 typewriter	100 00
1 adding machine	300 00
1 filing cabinet and cards	150 00
	<hr/> \$ 567 00

PERSONAL PROPERTY—Continued.

Stone Landing:

230 ft. edgestone.....	\$ 78 20
50 ft. curved edgestone	25 00
80 ft. new flagging.....	32 00
1 set falls.....	5 00
2 snatch blocks.....	4 00
2 derricks.....	150 00
	————— \$ 294 20

Magazine:

28½ boxes 1¼ in. dynamite. . . .	\$ 250 00
12½ boxes 1½ in. dynamite.....	109 00
	————— \$ 359 00

Blacksmith Shop:

22 kegs horse shoes.....	\$ 88 00
3 forges and tools.....	150 00
3 electric blowers and motors.....	75 00
4 anvils.....	40 00
1 drill press.....	35 00
1 tire roll.....	20 00
1 mandrel.....	25 00
1 screw plate, tap and dies.....	50 00
3 vises.....	35 00
2 sets shoer's tools.....	10 00

PERSONAL PROPERTY—Continued.

1 blacksmith's sow	\$ 5 00
2 lifting jacks	10 00
1 jackscrew	3 00
2 bitt braces	1 50
3 sledge hammers	3 00
1 bolt cutter	6 00
1 combination wrench	2 00
3 monkey wrenches	3 00
½ ton assorted iron	26 00
½ ton assorted steel	4 25
2,300 assorted bolts	69 00
75 lbs assorted blank nuts	9 00
20 lbs assorted washers	2 00
20 lbs assorted rivets	2 00
1 chain hoist	36 00
12 hard pan plow points	6 00
	————— \$ 715 25

Tool House and Boxes:

137 snow shovels	\$ 68 50
142 round point shovels	71 00
37 square point shovels	18 50
212 picks	159 00
101 pick handles	30 00
75 hoes	75 00

PERSONAL PROPERTY—Continued.

29 frost wedges	\$ 14 50
12 stone wedges	6 00
46 push brooms	10 00
42 pick up brooms	10 50
14 push pans	4 20
38 pick up pans	15 20
24 stone hammers	12 00
12 frost hammers	24 00
16 striking hammers	16 00
2 claw hammers	1 00
5 hand hammers	3 00
38 crow bars	38 00
16 tamping bars	8 00
174 points and drills	34 80
8 wood axes	4 00
4 monkey wrenches	5 00
8 levels.	8 00
6 cloth tapes	15 00
7 mortar pails	75
7 oil cans	1 40
4 try squares	3 65
11 mauls (iron)	15 00
4 wooden mauls	4 00
7 sets sighting sticks	3 00
4 hand saws	2 80

PERSONAL PROPERTY—Continued.

11 stone sets.....	\$ 3 50
9 paving hammers.....	9 00
1 hydrant wrench.....	2 00
1 reducer.....	4 00
22 grubs.....	11 00
13 stone chains.....	7 50
4 trowels.....	2 00
5 spread chains ...	3 00
5 cold chisels	2 50
2 chain tongs	1 00
6 whiffle trees.....	1 50
	<hr/> \$ 728 80

Dracut Ledge

Crusher and buildings complete..	\$12,000 00
Blacksmith shop and tools.....	100 00
500 tons crushed stone.....	600 00
2 new drills.. ..	300 00
1 old drill.....	50 00
1 pony drill.....	30 00
78 ft. drill steel.....	42 70
1 battery and wires.....	10 00
	<hr/> \$13,132 70

Harness Shop:

stock and tools.....	\$ 117 42
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PERSONAL PROPERTY—Continued.

Horses, Carriages, etc.:

42 draught horses	\$ 8,400 00
6 driving horses.....	1,200 00
4 sleighs.....	80 00
7 carriages.....	600 00
1 automobile.....	1,800 00
21 double carts	1,100 00
1 single truck	25 00
2 double stone jiggers.....	90 00
14 single carts	1,200 00
12 single sleds.....	300 00
2 single jiggers.....	80 00
27 double sleds	1,500 00
3 Baker blankets.....	10 00
59 stable blankets.....	92 00
63 street blankets.....	112 00
6 robes.....	15 00
1 light express wagon.....	50 00
56 sets double harness.....	1,020 00
7 sets single harness.....	100 00
	—————\$17,774 00



APRIL 18, 1911. 8 55 A. M. MONUMENT SQUARE. NEW PAVEMENT. LOOKING WEST FROM FREIGHT R. R. CROSSING.

PERSONAL PROPERTY—Continued.

Steam Rollers, etc.:

5 steam rollers	\$ 9,000 00
1 concrete mixer.....	700 00
2 hard pan plows	30 00
2 road plows	18 00
14 sidewalk plows.....	70 00
2 gutter plows.....	20 00
3 machine sweepers.....	150 00
1 road machine	90 00
1 cement mixer.....	200 00
1 portable crusher.....	500 00
	<hr/> \$ 10,778 00
	<hr/>
	\$ 63,026 97

PERSONAL PROPERTY

Schedule of Personal Property Belonging to the Boulevard.

1 sprinkling cart.....	\$ 75 00
4 iron rakes.....	1 35
3 hoes	1 50
5 lawn mowers.....	10 00
1 sand screen.....	1 50
1 pair edging shears	1 50
1 grindstone.....	4 00
1 storehouse	200 00
3 wheelbarrows.....	4 50
2 hand sprinklers.....	1 50
7 wooden rakes	3 50
2 push brooms.....	1 00
4 pick-up brooms.....	1 00
5 pick handles.....	1 00
2 settees	5 00
4 picks.....	1 75
4 round pointed shovels.....	2 00
7 square pointed shovels	3 50
1 windmill.....	1,800 00
2 axes	2 00
3 scythes.....	3 00

PERSONAL PROPERTY—Continued.

3 snaths	\$ 1 50
1 hay fork..	1 00
3 ladders.....	12 00
1 screen.....	2 00
5 stone forks.....	2 00
4 oil cans.....	1 00
4 valves and arms.....	15 00
5 push brooms.....	1 50
	<hr/> \$ 2,160 50

PERSONAL PROPERTY

Schedule of Personal Property Belonging to the Street Watering Department.

19 horses.....	\$ 3,800 00	
14 sets harnesses.....	350 00	
19 halters.....	14 00	
9 curry combs.....	2 25	
9 brushes.....	2 25	
16 sprinkling carts.....	2,400 00	
5 double carts.....	500 00	
19 feed baskets.....	9 50	
1 step ladder.....	2 00	
1 large Stilson wrench.....	1 00	
1 feed truck.....	3 00	
8 shut-off wrenches.....	8 00	
19 stable blankets.....	28 50	
19 street blankets.....	28 50	
19 car hydrants.....	2,090 00	
	<hr/>	\$9,239 00

PERSONAL PROPERTY

Schedule of Personal Property Belonging to the Sewer Department.

50 parts of old grates	\$.30 00
20 crow bars	20 00
9 crabs for shear poles.....	225 00
10 water barrels.....	10 00
9 mortar beds	9 00
6 sand screens	20 00
15 catch basin steps	14 32
2 piper's die and stock	34 00
6 tool boxes for boilers.....	20 00
2 pairs of tongs	3 00
12 hydrant wrenches	10 00
10 jack bars.. ..	5 00
1 paving maul	2 75
3 portable forges	171 00
15 tool boxes	140 00
2 sewer wheelbarrows	2 00
3 dutchmen for hydrants	38 50
9 wooden rolls.....	2 00
5 engine houses	90 00
6 batteries.....	120 00

PERSONAL PROPERTY—Continued.

8 steam drills	\$1,600 00
6 masons' trowels.....	6 00
500 lbs. drill steel for steam drill	75 00
22 caulking tools	10 00
6 hand drill hammers.....	3 00
6 tape lines.....	6 00
6 pounds shims and wedges	3 20
60 striking hammers.....	120 00
18 stone hammers	45 00
10 frost hammers.....	30 00
2 fiddle blocks.....	10 00
25 pick handles.....	2 50
12 catch basin dippers.....	13 00
6 iron mauls	18 00
14 wooden mauls.....	28 00
12 sets shear poles	100 00
1 Trainer sewer machine	1,400 00
12 jack screws... ..	24 00
144 lanterns	72 00
6 pair long leg rubber boots.....	18 00
4 iron pails.....	4 00
600 ft. $\frac{3}{4}$ -in. rubber hose.....	36 00
1 set branding irons	2 00
8 hoes	4 00
12 post hole scoops.....	24 00

PERSONAL PROPERTY—Continued.

182 round point shovels.....	\$ 91 00
150 square point shovels.....	75 00
17,500 ft. sewer lumber.....	175 00
6 marine pumps.....	50 00
150 ft. pump hose	150 00
1 60-gal. oil can	7 00
3 steam drill pumps.....	3 00
20 drilling spoons.....	10 00
9 hand saws.....	9 00
3 barrels Portland cement.....	4 80
5 adzes	10 00
3 ejectors	40 00
9 axes	9 00
8 hatchets.....	6 00
15 packages carriage bolts	15 00
7 spirit levels.....	10 50
12 measuring sticks	11 00
2 gallons blue paint.....	4 00
9 claw hammers	4 50
21 padlocks	20 00
75 feet steam drill hose	7 50
1 box repairs for marine pump....	25 00
8 strainers for marine pump	7 00
8 monkey wrenches.....	4 00
3 Lidgewood engines	2,500 00

PERSONAL PROPERTY—Continued.

1 Hoadley engine	\$ 350 00
1 upright boiler	250 00
3 derricks, complete	1,500 00
1 driving horse	150 00
4 draught horses	475 00
1 Concord wagon	175 00
1 light sleigh	40 00
4 single sleds	125 00
4 single dump carts	300 00
2 double trucks	350 00
5 stable blankets	15 00
5 street blankets	15 00
4 grub axes	2 00
200 picks	150 00
9 large chains	36 00
4 steam drills	16 00
6 tin dippers	60
2 spades	1 00
50 pounds waste	5 00
12 spanner wrenches	8 00
2 hose nozzles	23 00
2 sets taps and dies	29 00
21 sling chains	10 50
9 sets tackle and falls	38 50
75 gallons kerosene oil	7 50

PERSONAL PROPERTY—Continued.

3 neck yokes	\$ 5 00
25 wooden pails	18 00
6 frost wedges	6 00
2 pipe vises	30 00
145 hand drills, 2,300 pounds	300 00
2 row boats	20 00
6 sheathing dogs	17 00
10 iron tampers	5 00
8 scoop handles	6 00
8 crosscut saws	16 00
5 wooden wheelbarrows.....	2 50
12 iron wheelbarrows.....	36 00
25 feet Canada matched boards... ..	75
1 roll canvas.....	25 00
4 manhole castings	36 00
5 single harnesses.....	90 00
1 light harness	20 00
1 square wagon.....	40 00
8,000 bricks.....	80 00
5 halters.....	5 00
1 work bench.....	4 00
1 stove.....	6 00
3 paving hammers... ..	6 00
120 hammer handles.....	24 00
6 sets wires for batteries.....	11 00

PERSONAL PROPERTY—Continued.

2 sets blacksmith's tools.....	\$ 9 00
4 anvils	15 00
12 oil cloth suits.....	36 00
20 feet 2½ inch hose.....	12 00
9 oil cans, 5 gal	6 50
4 paint brushes.....	1 00
2 sets engineer's tools	7 00
1 tool house and fixtures.....	3,000 00
1 table.....	5 00
1 bolt cutter	7 00
1 sprinkling can.....	50
37 plug steels	11 00
1 vise.....	9 00
6 water tubs.....	1 50
1 hand drill.....	7 00
60 lantern globes.....	6 00
7 edgestone castings	14 00
7 long handled shovels.....	6 00
1 600 lb. Knowles Scale.....	16 50
1 engine shed.....	250 00
1 derrick shed....	500 00
1 scythe snath.....	1 00
300 feet wrought iron pipe.....	30 00
3 ejectors.....	34 00
1 oil tank and pump....	38 00

PERSONAL PROPERTY—Continued.

75 feet steam drill hose.... .	\$ 55 00
3 stillson wrenches.....	7 50
1 magazine.....	365 00
2 dynamite heaters.....	5 00
12 diaphragms for pumps.....	120 00
800 feet 2½ inch hydrant hose.....	190 00
5 claw bars	5 00
5 plank cutters.	5 00
4 waterproof covers.....	10 00
1 18 inch lathe.....	462 75
1 4 jaw chuck.....	23 10
1 Little Giant Chuck.....	6 25
1 Prentis Brothers' drill.....	234 00
1 grinder.....	29 00
1 set Morse Twist Drill, ½" to 1"...	16 40
Shafting and 5 10 inch hangers.....	22 50
½ inch to 2 inch reamers.....	93 49
2 Armstrong tools.....	3 50
¼ inch to 1 inch taps.....	18 50
1 bolt set.....	18 50
1 motor.....	30 00
2 emery wheels.....	11 20
1 set lathe dogs.....	6 85
7 pulleys.....	20 65
Belting.....	50 51

PERSONAL PROPERTY—Continued.

1 Harrington Screw Hoist.....	\$ 48 60
1 sewer cleaning machine.....	300 00
1 set pipe shear poles.....	50 00
4 banjo lights.....	6 00
1 Duplex Telephone.....	15 00
6 hot water heaters.....	6 00
12 sand heaters.....	12 00
230 feet 6 inch drain pipe.....	18 40
20 " 8 " " "	2 66
50 " 16 " " "	13 50
30 " 10 " " "	6 08
Total	<hr/> 19,081 86

CONCRETE CROSSINGS REPAIRED

STREETS	LOCATION	SQ. YDS.	COST
Chambers ...	Across Pine Hill and Irving Sts. (Hard Con)	21.4	\$ 21 40
School.. . . .	Across Grove St. (Hard top dressing).....	19.8	19 80
	(Hard Concrete)....	19.8	13 86
Smith	At Horn St. (H. T. D.) Reg. for macadam	22.7	15 44
	(Hard Con.) Reg. for macadam	6.3	6 30
Twelfth	Across June St. (Hard Con.).....	13.1	13 10
	(Hard Top Dressing).	13.1	8 91
Westford	Across Oak Ave. (Hard Top Dressing).....	16.9	16 90
Worthen	At northerly line Kitson St. (H.T.D.).....	16.9	11 50
	(H. Con.).....	18.0	18 00
		168 0	\$145 21

FENCES BUILT AND REPAIRED

STREETS	LOCATION	LIN. FT.	COST
Butler Ave...	At No. 32.....	14.7	\$ 18 67
Fletcher.....	At Ledge Lot.....	330.0	267 06
Middlesex ...	North side, between Hadley and Baldwin Sts...	650.0	139 02
Perry	Easterly side, between Pond and Sherman Sts.	80.0	8 30
Smith.....	East side, front premises Howe Estate.....	206.7	54 91
Woburn	Both sides, between Lawrence and Eugene Sts.	600.0	46 76
Wall.....	Southerly side, at Concord River.....	210.0	35 70
		2091.4	\$570 42

EDGESTONES SET—(New).

SUPERINTENDENT OF STREETS.

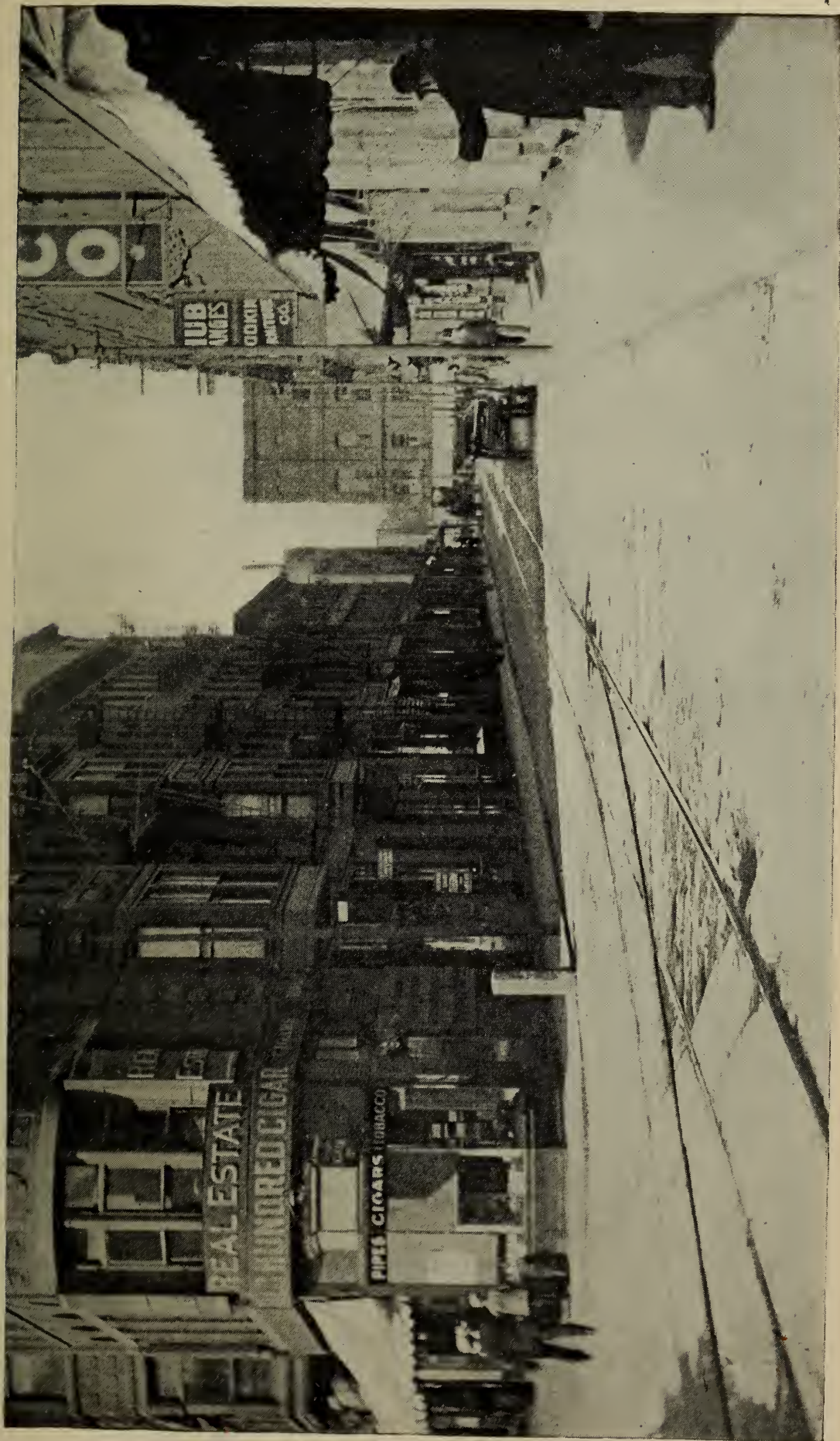
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STREETS	LOCATION	LIN. FT.	LABOR	TEAMING	STOCK	TOTAL
Anne.....	Edgestone set by resolution.....	12,542.3	\$ 122 11	\$ 56 28	\$ 263 76	\$ 442 15
Andrews.....	West side, from end old edgestone to French street.....	694.1	2 79	2 30	5 89	10 98
Appleton.....	East side, at Parochial school.....	15.5	3 36	2 43	8 82	14 61
Bridge.....	Between Central and Gorham streets.....	23.2	4 60	11 00	17 63	33 23
Common.....	At Canal Bridge.....	46.4	32		1 06	1 38
Central.....	From north side, Green St. to south side, Appleton St.	2.8	14 85	10 82	45 50	71 17
Dracut.....	West side, at White street.....	103.4	72	1 51	2 05	4 28
French.....	South side, between Anne and Kirk streets.....	4.1	2 80	1 29	4 18	8 27
Gorham.....	Between Middlesex St. and point south of Appleton St.	10.9	42 45	30 88	117 69	191 02
Liberty.....	North side, from Smith street, easterly.....	295.1	6 01	3 50	12 69	22 20
Market.....	At Maiden Lane.....	33.4	1 47	1 30	3 11	5 88
Merrimack.....	Between R.R. tracks, Dutton St. and W. side Tilden St.	8.2	49 32	74 62	164 67	288 61
Methuen.....	Round corner, at Merrill avenue.....	411.4	3 44	2 50	6 00	11 94
Middlesex.....	From B. & M. R. R. tracks to east side Howard St.....	12.0	31 38	7 50	65 42	104 30
Mid'x and Branch	From east side Howard St. to west side Nichols St.....	168.7	124 30	139 78	417 17	681 25
Perry.....	Southerly of Pond street.....	984.1	2 23	3 15	5 28	10 66
Prescott.....	From south side Merrimack St. to east side Central St.	13.9	44 68	51 94	137 04	233 66
School.....	From Pawtucket Bridge, southerly.....	335.5	9 20	11 00	19 41	39 61
Smith.....	East side, between Westford and Liberty streets.....	51.1	23 94	34 20	50 87	109 01
White.....	Round corner at Dracut street.....	109.0	4 00	1 10	3 46	8 56
		7.0				
		15,872.1	\$493 97	\$447 10	\$1,351 70	\$2,292 77

REPORT OF THE

SIDEWALKS BUILT BY RESOLUTION OF CITY COUNCIL

STREET	LOCATION	Lineal feet Curved Stone	Lineal feet Edge	Square yards Concrete	Width in Feet	Passed	Labor	Teaming	Edgestone	Concrete	Total
Powden.....	North side, from edge former- ly laid to land B. & M. R. R.....	46.8	1143.6		6	July 15, '09.	\$107 64	\$97 56	\$457 97		\$663 17
Burgess	South side, from Chippewa St. to land B. & M. R. R.) North side from Hastings St. to Grace St.; south side, in front No. 34.....			173.1	5	Oct. 25, '10..				\$ 78 60	78 60
Butler Ave....	North side, from Gorham St. to Crosby St.; south side, from Crosby St. to edge al- ready laid.....	63.4	905.3		6	May 17, '10.	163 15	52 96	375 71		591 82
Carter.....	South side, in front School House.....				6	Dec. 9, '09 .				44 14	44 14
Clitheroe	West side, from Wyman St. northerly.....	9.7	99.8	98.1	6	May 17, '10.	13 13	6 85	42 77		62 75
*Corbett.....	Both sides, from Gorham St. easterly.....		1172.2		6	July 13, '09.	94 52	84 45	445 44		624 41
Crawford.....	Both sides, from White St. to Fourth Ave.....		666.7		6	Sept. 7, '09..	105 00	46 60	271 89		423 49
Dalton	Both sides, Exeter St. to Farmland Road.....	37.1	685.3		6	Dec. 28, '09.	107 37	56 36	285 96		449 69
Dane.....	East side, Salem St. to Gage St.....	51.1	190.0		5	June 28, '10.	36 13	20 42	81 40		137 95
**Dutton.....	West side, from Market St. to Music Hall Ave.....	18.4	34.1		15	Dec. 9, '09..	15 25	23 12	23 36		61 73
Ennell.....	North side, from Cumber- land Rd. to Hildreth St.) South side, from West Sixth St. to Hildreth St. where not laid.....	49.1	1298.4		6	Sept. 9, '09..	127 02	78 03	434 09		639 14
*Gates.....	West side, from Thayer St. northerly.....	9.0	50.3		6	May 12, '10.	19 00	3 43	23 62		46 05



MAY 10, 1910, 2 25 P. M. OLD PAVEMENT, PRESCOTT STREET. LOOKING NORTH FROM CENTRAL STREET.

SIDEWALKS BUILT BY RESOLUTION OF CITY COUNCIL—CONTINUED

SUPERINTENDENT OF STREETS.

41

Grace.....	West side, Burgess St. north- erly.....	40.3	6	Oct. 25, '10..					\$ 18 13	\$ 18 13
Hastings.....	East side, Burgess St. north- erly.....	61.0	6	Oct. 25, '10..					27 45	27 45
Howe.....	West side, from edge, formerly laid to Davidson St.....		6	May 17, '10.	\$ 9 75	\$ 2 63	\$ 34 00			46 38
Marsh.....	South side, from School St. westerly.....	65.1	6	May 24, '10.	9 50	3 43	40 48		29 30	82 71
May.....	East side, where concrete was not laid.....	253.8	5	Dec. 9, '09..					113 21	113 21
Perry.....	East side, Andover St. to } Sherman St.....									
	West side, Andover St. to } land American Tread Co.....									
Pine.....	South side, from Penniman Sq. easterly.....	27.1	6	July 13, '09.	393 63	259 30	968 79			1,621 72
School.....	West side, Marsh St. south- erly.....	63.6	6	June 28, '10.	18 38	10 35	36 48		28 62	93 83
School.....	West side, Broadway to West Bowers St., where not laid..	71.5	7	May 12, '10.	13 62	5 05	38 10		32 17	88 94
*Sheldon.....	North side, from Ware St. westerly.....	288.3	7	Aug. 9, '10..	45 51	15 63	115 90			177 04
Sidney.....	Both sides, from Moore St to B. & M. R. R.....	138.7	6	July 1, '09..	33 50	13 74	52 71			99 95
*Thayer.....	South side, from Barclay St. easterly.....	742.1	6	May 17, '10.					311 49	311 49
Victor.....	Both sides, from Ennell St. to Boisvert St.....	203.8	6	July 26, '10.	31 50	14 92	77 45			123 87
Washington...	West side, from Hale St. southerly.....	708.9	6	Sept. 9, '09..	66 63	55 19	121 60			243 42
Weed.....	North side, from Gorham St. easterly.....	1017.3	6	June 28, '10.	134 65	90 08	386 57			611 30
West Ninth...	North side, from Bridge St. to edgestones laid.....	449.6	5.5	May 24, '10.	48 13	48 95	170 85			267 93
		331.8	5	May 24, '10.	36 00	29 41	130 48		47 48	243 37
		383.0			\$1,629 01	\$1,018 46	\$4,615 62		\$730 59	\$7,993 68

*Not completed.
**Widened 5 feet. 81.2 square yards brick sidewalk laid. 112.01 linear feet old edgestone reset.

REBUILDING BRIDGES

STREETS	LOCATION	COST
Congress	River Meadow Brook	\$ 3,170 35
†Lawrence . . .	Wamesit Canal	9,250 33
Plain	River Meadow Brook	1,705 77
		<hr/> \$ 14,126 45

† Not completed.

REPAIRS OF BICYCLE PATHS

STREETS	LOCATION	SQ. YDS.	COST
Bridge	East side, between 18th and 19th Sts. (H.T.D.)	18.5	\$ 14 80
Bridge	West side, between Boyn- ton and Jewett Sts.	188.0	150 40
Chelmsford . .	East side, between Nott- ingham St. and Lincoln Sq. (H. T. D.)	122.8	110 52
Chelmsford . .	East side, between Plain and A Sts. (H. T. D.) . .	276.5	248 95
Chelmsford . .	East side, between A and Nottingham Sts. (H.T. D.)	169.0	152 10
		<hr/> 774.8	<hr/> \$ 676 77

REPAIRING BRIDGES

STREETS	LOCATION	COST
Aiken	Northern Canal.....	\$ 66 87
Aiken	Merrimack River.....	191 66
Bridge.....	Merrimack River.....	252 08
Broadway....	Pawtucket Canal....	21 77
Bedford Ave..	Clay Pitt Brook	12 67
Cambridge...	River Meadow Brook.....	2 00
Howard.....	River Meadow Brook.....	122 77
Jefferson	Western Canal.....	29 77
Lundberg....	B. & M. R. R.....	25 65
Lexington Av.	Clay Pit Brook.....	12 67
Lincoln.....	River Meadow Brook.....	747 31
Market.....	Merrimack Canal.....	75 78
Middlesex....	Black Brook.....	4 00
Merrimack...	Western Canal	9 65
Moody	Merrimack River.....	346 35
Moody.....	Western Canal.....	92 14
Newhall	River Meadow Brook.....	58 52
School.....	Merrimack River.....	702 43
Townsend Av.	Clay Pit Brook	104 24
Worthen St..	Western Canal.....	79 20
		\$ 2,957 53

STREETS MACADAMIZED

REPORT OF THE

STREETS	LOCATION	LIN. FT.	SQ. YDS.	LABOR	STOCK	TEAMING	ROLLING	TOTAL
Anne.....	From south line French St. southerly.....	578.0	1,661.2	\$ 315 70	\$ 530 81	\$ 383 00	\$ 95 00	\$ 1,324 51
Beacon.....	From Methuen St. to Nineteenth St.....	2,016.5	5,969.0	241 38	1,454 12	411 50	282 24	2,389 24
Butler Ave..	From Gorham St. to Crosby St.....	580.0	986.0	294 83	1,341 22	329 00	57 00	1,022 05
Ennell.....	From Lakeview Ave. to Hildreth St.....	1,520.0	5,015.0	684 15	1,784 04	905 00	167 50	3,540 69
aFisher.....	At junction Exeter St.....	67.0	240.3	160 20	761 75	306 00	287 68	1,515 63
French.....	From Anne St. to Kirk St.....	280.0	1,005.6	128 04	288 76	179 50	38 75	635 05
Kirk.....	From French St. to Paige St.....	163.0	512.9	28 69	181 07	95 50	35 62	340 88
Methuen.....	From Beacon St to City line.....	1,300.0	4,037.0	360 11	1,073 88	392 50	378 47	2,204 96
bSmith.....	From Westford St. to Liberty St.....	1,281.2	4,027.5	1,037 73	2,008 56	663 50	122 50	3,832 29
bStevens.....	From Pine St. to Parker St.....	1,750.0	5,195.0	987 37	2,276 77	1,299 50	355 07	4,918 71
Victor.....	From Ennell St. to Boisvert St.....	382.0	1,188.0	177 23	459 80	264 50	65 00	966 53
West Sixth..	In front Fire Engine House.....	93.0	413.0	66 66	133 65	47 50	44 61	292 42
White.....	From Moody St. to Bodwell Ave.....	749.0	3,135.0	576 79	1,376 00	889 71	148 13	2,990 63
		10,759.7	33,442.5	\$ 5,058 88	\$12,670 43	\$ 6,166 71	\$ 2,077 57	\$ 25,973 59

a Measure reported 1902.

b Oiled.

Macadamized Streets, January 1st, 1911:—37.458 miles; 632,119.80 square yards.

MACADAMIZED STREETS TOP DRESSED

STREETS	LOCATION	LIN. FT.	SQ YDS.	LABOR	STOCK	TEAMING	ROLLING	TOTAL
Andover....	From Concord St. easterly	48 0	114.7	\$ 23 88	\$ 9 68	\$ 27 50	\$	\$ 61 06
Clark.....	From Common Ave. westerly }		1,765 5	77 53	161 42	82 00	31 56	352 51
a Clark.....	From Common Ave. westerly }	550.0	84.9	5 09	20 50	17 50	1 56	44 65
a Common Av	From Salem St. to Common St.....	287 0	2,672.0	468 78	1,227 62	547 60	69 01	2,313 01
a Common....	From Cross St. to Common Ave.....	845.4	2,263.6	391 60	1,040 04	463 90	58 49	1,954 03
b Thorndike.	From Davis Sq. to Hale St.....	944.0	2,694.9	540 46	338 80	236 50	69 78	-1,185 54
		2,674.4	9,595.6	\$ 1,507 34	\$ 2,798 06	\$ 1,375 00	\$ 230 40	\$ 5,910 80

a Oiled.
b Unfinished.

REPAIRS OF ASPHALT PAVEMENT.

STREETS	LOCATION	SQ. YDS.	COST.
Broadway ...	Between Suffolk and Mt. Vernon Sts.	405.2	\$ 709 10
Market	Between Central and Palmer Sts.....	95.8	167 75
Suffolk	Between Market and Broadway Sts.....	105.9	185 32
Westford	Between Loring and Wilder Sts.....	51.8	90 65
		658.7	\$1,152 82

REPAIRS OF ASPHALT PAVEMENT WITH CEMENT.

STREETS	LOCATION	SQ. YDS.	COST
Aiken	Between Aiken St Bridge and Hall St.	617.0	\$ 573 81
Aiken	Between Cheever and Hall Sts.	205.7	191 30
Hall	From Aiken St. to Aiken St.	59.5	49 70
		882.2	\$ 814 81

REPAIRS OF CONCRETE PAVEMENT.

Pawtucket...	Between Salem and School Sts.	1052.9	\$ 794 17
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REPAIRS OF BITULITHIC PAVEMENT.

Central.....	Between Elm and Gorham Sts.	1919.8	\$1,631 88
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CONCRETE SIDEWALKS TOP-DRESSED.

STREETS	LOCATION	SQ. YDS.	COST.
Andrews...	North side, from Lawrence St. westerly.....	2.0	\$ 60
Andrews...	East side, from Moore St. northerly	46.4	16 24
Appleton...	South side, from Central St. to Gorham St. (Reg for paving).....	112.6	33 78
Appleton...	North side, from Central St. to Gorham St. (Reg for paving, hard).....	66.9	46 83
Bellevue....	West side, front Nos. 41-73.....	150.1	45 03
Bellevue....	West side, front Nos. 71, 73 (hard)	7.4	3 70
Belmont....	East side.....	425.8	127 74
Branch.....	South side, from Middlesex St. to Nichols St. (reg. for paving, hard).	242.3	169 61
Bridge	West side, at No. 516.	8.2	5 58
Bridge	West side, between West Third and West Fourth Sts. (hard)	175.0	118 60
Broadway ..	South side, at No. 420 ..	101.5	30 45
Central...,..	East side, at south side Church St. (reg. for paving).....	18.7	5 61

CONCRETE SIDEWALKS TOP-DRESSED—Continued.

STREETS	LOCATION	SQ. YDS.	COST
Central.....	West side, at south side Appleton St. (reg. for paving).....	14.8	\$ 4 44
Central.....	South side, at Davis Ter- race (hard).....	11 9	8 33
Central.....	South side, between Da- vis Terrace and Crosby St.....	6.5	1 89
Central.....	West side, from Tower's Corner to Appleton St. (reg. for paving, hard)	154.6	108 22
Chambers ..	North side, from Gorham St. easterly.....	17.5	5 25
Chelmsford.	West side, from Thorn- dike St. southerly.. ..	103.2	30 96
Chestnut...	South side, between Fay- ette and High Sts.....	34.5	10 35
Church.....	North side, at Central St. (reg. for paving, hard)	4.6	3 22
Concord....	West side, front No. 23..	17.7	5 31
Cross.....	North side, at No. 139...	7.7	2 31
E. Merr'k..	North side, between Con- cord River and Stack- pole Street.....	63.6	44 52
Fremont....	East side, from Sixth St. northerly.....	375.9	112 77

CONCRETE SIDEWALKS TOP-DRESSED—Continued.

STREETS	LOCATION	SQ. YDS.	COST
Fremont....	East side, from Sixth St. northerly (hard).....	16.0	\$ 10 88
Gorham	East side, from Chambers St. northerly.....	56.6	16 98
Gorham	East side, from No. 752 southerly.....	24.3	7 29
Gorham	West side, between Tower's Cor. and Post Office Ave. (reg for paving, hard).....	48.0	33 60
Kirk	West side, front No. 66..	16.9	5 07
Lawrence...	West side, between Tyler and Church Sts....	164.1	49 23
Lawrence...	West side, from Andrews St. northerly.....	37.6	11 28
Liberty	Both sides, front Nos. 81 and 268.....	77.9	23 37
Liberty	North side, front No. 81 (hard).....	6.6	3 30
Liberty	North side, from Smith St. easterly.....	17.9	55 37
Loring	West side, at Nos. 63-77.	78.2	23 46
Loring	West side, from Branch St. southerly.....	165.0	49 50
Middlesex..	South side, from Arch St. to Howard St. (reg. for paving, hard).....	138.1	96 76

CONCRETE SIDEWALKS TOP-DRESSED—Continued

STREETS	LOCATION	SQ. YDS.	COST
Middlesex..	South side, from Howard St. to Grand St. (reg. for paving, hard).....	145.3	\$ 101 71
Middlesex..	North side, from No. 553 to Howard St. (reg. for paving, hard).....	210.1	147 07
Middlesex..	North side, from Howard St. to B. & M. R. R. (reg. for paving, hard).....	30.4	21 28
Middlesex..	South side, from Grand St. to McIntire St. (reg. for paving, hard).....	203.4	142 38
Middlesex..	South side, from McIntire St. to Branch St. (reg. for paving, hard).....	75.1	52 57
Middlesex..	North side, from Eagle Ave. to No. 553 (reg. for paving, hard).....	253.3	177 31
Middlesex..	South side, at Franklin School house (reg. for paving, hard).....	12.0	8 40
Middlesex..	North side, front of Highland House (reg. for paving, hard).....	46.1	32 27
Middlesex..	North side, from w. line T. H. Elliott's to Eagle Ave. (reg. for pav. hard)	215.4	150 78
Moore.....	North side, from Andrews St. easterly.....	101.8	35 63.

CONCRETE SIDEWALKS TOP-DRESSED—Continued.

STREETS	LOCATION	SQ. YDS.	COST
Nesmith....	West side, at A.C. Wheelock's (hard).....	17.5	\$ 12 25
Nesmith....	West side, at A. C. Wheelock's (hard).....	19.7	13 79
Osgood.....	West side, at No. 5.....	7.9	2 37
Perry	East side, at Nos. 50-76..	69.5	19 85
Pine.....	South side, at Warwick St.	1.5	45
Porter.....	South side, from High St. easterly	37.2	11 16
Prescott....	East side (reg. for paving, hard).....	72.1	50 47
Prescott....	West side (reg. for paving, hard).....	96.0	67 20
Read	West side, between Sixth and Seventh Sts.....	36.5	10 95
School.....	East side, from Pawtucket Bridge s'ly, (Reg. for paving, Hard.....	95.3	28 59
School.....	West side, from Pawtucket Bridge s'ly, (Reg. for paving, Hard	98.7	29 61
School.....	West side, at No. 167..	47.4	14 22
School.....	East side at No. 676....	11.5	3 45
Sherman ...	South side, at No. 119..	38.5	11 55

CONCRETE SIDEWALKS TOP-DRESSED—Continued.

STREETS	LOCATION	SQ. YDS.	COST
Smith	East side, from Liberty St. s'ly.....	20.3	\$ 6 09
Smith	East side, between Liberty and Westford Sts. (Reg, for macadam)..	240 7	72 21
Smith	East side, between Liberty and Horn Sts., (Reg. for macadam)..	4.7	3 20
Stevens.....	West side, between Westford and Pine Sts.....	208.6	62 58
Stevens.....	East side, from No. 218 to No. 246.....	127 0	38 10
Third	North side, at No. 24..	34.9	15 70
Third	North side, front No 70..	19.5	5 85
Third	North side, front No. 70, (Hard).....	6 5	4 42
Thirteenth..	North side, from July St., westerly.....	191.6	57 48
Thorndike..	West side, at west side Chelmsford St.....	6.8	2 04
Thorndike..	East side, at Stott's Block, (Hard).....	9.0	6 30
Thorndike..	West side, at Davis Sq.	5 8	4 06
Twelfth	North side, between May and June Sts.....	102.6	30 78

CONCRETE SIDEWALKS TOP-DRESSED—Continued.

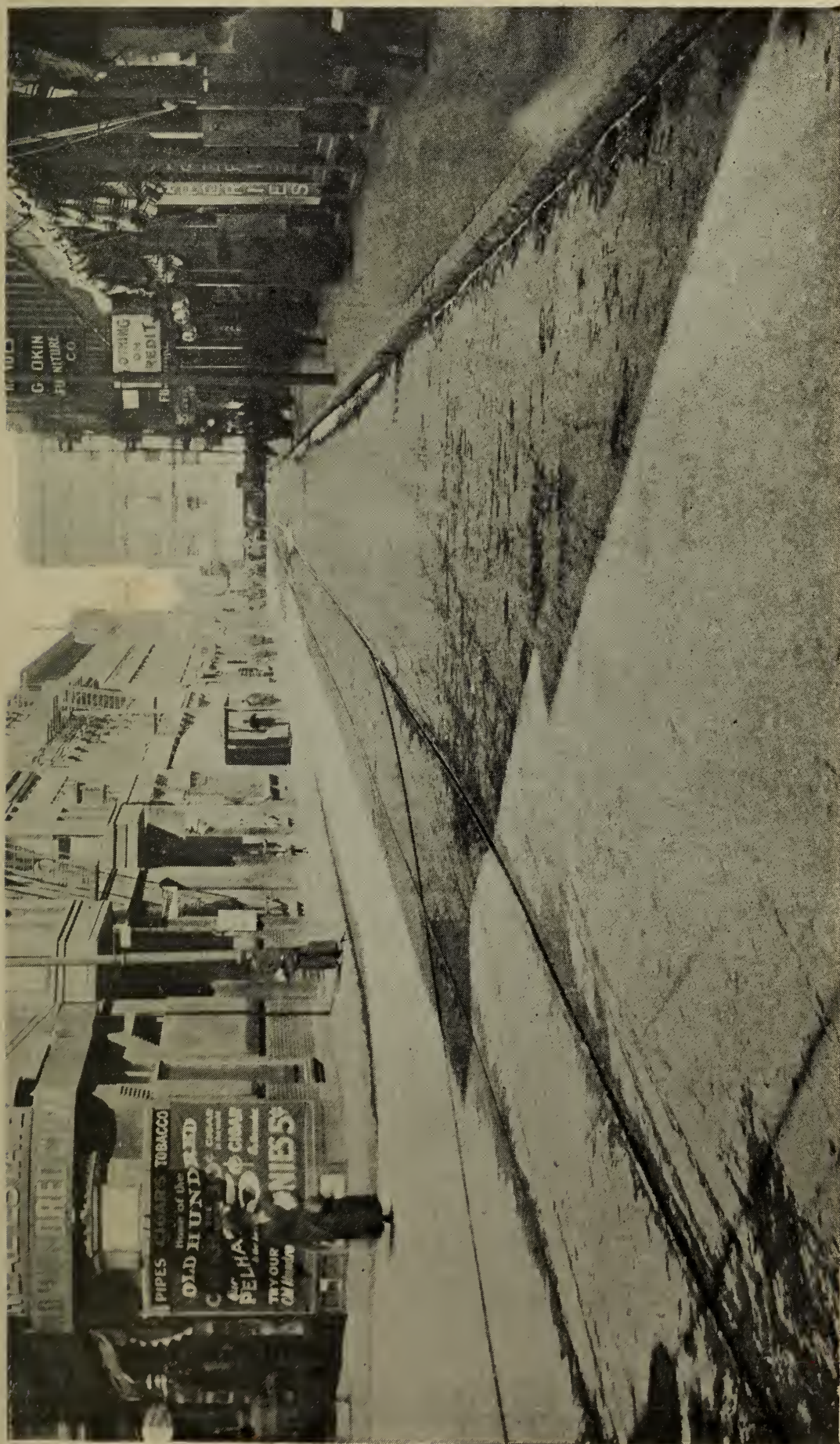
STREETS	LOCATION	SQ. YDS.	COST
Twelfth	North side, from Bridge St., easterly.....	212.0	\$ 63 60
West... ..	West side, from West 6th St., northerly	45.1	13 53
Westford...	North side, at Oak Ave.	23.7	7 11
Wilder	West side, at A. C. Russell's, (Hard).....	8.4	5 88
Willie	West side, from Cross St., southerly.....	94.3	28 29
Worthen....	West side, at Canal....	11.6	3 48
Worthen....	West side, at Canal (Hard).....	5.2	3 54
		6337.1	\$2,906 98

CONCRETE SIDEWALKS REPAIRED

STREETS	LOCATION	SQ. YDS.	COST
Ames	North side, at Dr. McCarty's driveway, hard	10.8	\$ 10 80
Andrews ...	North side, from Lawrence St. westerly	5.0	2 50
Andrews ...	East side, from Moore St. northerly	78.0	35 10
Anne	East side, in front High School, reg. for macadam	38.4	17 28
Appleton ...	South side, from Central St. to Gorham St., reg. for paving	16.4	7 38
Appleton ...	North side, from Central St. to Gorham St., reg. for paving, hard	19.9	19 90
Belmont	East side	23.5	10 57
Branch	North side, at Franklin School, reg. for paving, hard	237.7	237 70
Branch	South side, from Middlesex St. to Nichols St., reg. for paving, hard ..	40.5	40 50
Bridge	West side, between West Third and W. Fourth Sts.	3.6	1 62
Bridge	West side, at No. 654 ...	5.0	2 50
Carter	South side, in front of School House	98.1	44 14

CONCRETE SIDEWALKS REPAIRED—Continued.

STREETS	LOCATION	SQ. YDS.	COST
Carter	South side, from Carter Ave. easterly.....	100.7	\$ 45 31
Central.....	East side, at south side Church St., reg. for paving	5.3	2 39
Central.....	West side, at south side Appleton St.....	2.5	1 13
Central.....	West side, from Towers Cor. to Appleton St., reg. for paving, hard..	16.5	16 50
Chestnut...	South side, between Fayette and High Sts.....	8.0	3 60
Concord	West side, in front No. 23, hard	11.5	11 50
Fremont ...	East side, from Sixth St. northerly.....	36.3	16 34
Fremont ...	East side, from Sixth St. northerly, hard.....	5.3	5 30
Gates	East side, at No. 78.....	9.3	4 18
Gorham	East side, from Appleton St. southerly, reg. for paving, hard.....	42.7	42 70
Gorham	East side, from No. 66 to Donohoe bldg., hard...	117.7	117 70
Gorham	West side, between Towers Cor. and Postoffice Ave., reg. for paving, hard	9.9	9 90



APRIL 8, 1911, 11.52 A. M. NEW PAVEMENT, PRESCOTT STREET. LOOKING NORTH FROM CENTRAL STREET.

CONCRETE SIDEWALKS REPAIRED—Continued.

STREETS	LOCATION	SQ. YDS.	COST
Gorham	East side, between Towers Cor. and Appleton St., reg. for paving, hard	158.0	\$ 158 00
Howe	West side, from E. Merrimack St. southerly..	15.6	7 02
Kirk	West side, front No. 66..	31.6	14 22
Loring	West side, from Branch St. southerly, hard. . . .	14.0	14 00
Loring	West side, from Branch St. southerly	3.4	1 53
May	East side, at No. 21	19.6	8 82
Middlesex..	South side, from Arch St. to Howard St., hard, reg. for paving	20.4	20 40
Middlesex..	South side, from Howard St., to Grand St., reg. for paving	25.7	25 70
Middlesex..	North side, from No. 553 to opposite Howard St., reg. for paving	45.7	45 70
Middlesex..	North side, from opposite Howard St. to B. & M. R. R., reg. for paving, hard	121.9	121 90
Middlesex..	South side, from McIntire St. to Branch St., reg. for paving, hard..	163.8	163 80

CONCRETE SIDEWALKS REPAIRED—Continued

STREETS	LOCATION	SQ. YDS.	COST
Middlesex..	North side, from T. H. Elliott's to No. 553, reg. for paving, hard..	93.2	\$ 93 20
Middlesex..	South side, from Grand St. to McIntire St., reg. for paving, hard	111.3	111 30
Middlesex..	North side, from Highland House to land T. H. Elliott, reg. for paving, hard	109.4	109 40
Paige	North side, at Merrimack Sq. Theatre	28.5	28 50
Perry	East side, from No. 50 to No. 76.....	72.2	32 49
Porter	South side, from High St. easterly	10.8	4 86
Prescott ...	East side, hard, reg. for paving	67.0	67 00
Prescott ...	West side, hard, reg. for paving	43.4	43 40
Read	West side, between Sixth and Seventh Sts.....	10.4	4 68
School	East side, from Pawtucket Bridge southerly, reg. for paving	40.9	18 40
School.....	East side, at No. 676	11.8	5 31
School.....	West side, from Pawtucket Bridge southerly, reg. for paving ..	60.8	27 36

CONCRETE SIDEWALKS REPAIRED—Continued.

STREETS	LOCATION	SQ. YDS.	COST
School.....	East side, at No. 120, hard	12.1	\$ 12 10
School.....	West side, at No. 167....	21.6	9 72
Smith	East side, from Liberty St. southerly	1.0	45
Smith	East side, between West- ford and Liberty Sts., reg. for macadam.....	619.2	278 64
Smith	East side, between Lib- erty and Horn Sts., reg. for macadam.....	13.7	13 70
S. Walker ..	West side, at No. 121 ...	8.5	2 55
Stevens	West side, between West- ford and Pine Sts., hard	11.2	7 84
Third.....	North side, front No. 70.	21.1	9 50
Third.....	North side, front No. 70, hard	2.8	2 80
Third.....	North side, at Nos. 30 and 32.....	33.2	14 94
Thirteenth.	North side, from July St. westerly.....	3 4	1 53
Thirteenth.	South side, at May St ...	1.6	72
Thorndike .	West side, at Davis Sq., hard	11.8	11 80
West.....	West side, from West Sixth St, northerly....	48.3	21 74

CONCRETE SIDEWALKS REPAIRED—Continued.

STREETS	LOCATION	SQ. YDS.	COST
West.....	East side, from Fulton St. southerly.....	15.5	\$ 6 98
West Ninth.	North side, at No. 35....	4.1	1 84
Worthen ...	West side, at canal.....	4.8	2 16
		3,056.1	\$2,232 54

SIDEWALKS.

RESOLUTIONS PASSED BUT SIDEWALKS NOT COMPLETED.

STREETS	LOCATION	PASSED	LIN. FT. EDGE.	SQ. YDS. CONCRETE	Width in Ft.
			TO BE LAID		
Aiken.....	Both sides, from Lake-view Ave. to Aiken St. Bridge.....	1910 Dec. 6		722.2	
Anderson ..	Both sides, from Gorham St. to Anderson St. Court	Dec. 20	600.2		5
Bodwell Av.	Both sides, from White St, to Gershom Ave., except in front Sarah J. Griffin's.....	Oct. 25	344.4		6
Bourne.....	Both sides, from Moore St. to Otis St.....	Oct. 25	844.3		6
Corbett	Both sides, from Gorham St. easterly	1909 July 13		744.8	
Court	West side, from Manchester St. to Plain St. East side, from Manchester St. southerly about 882 ft.....	1910 Dec. 6	819.2		5.5
Endicott...	Both sides. from White St. to Sixth Ave.....	Dec. 6	1728.3		6
Ennell.....	South side, from Victor St. easterly, about 208.7 ft.....	Dec. 20		127.5	
Gates	West side, from Thayer St. northerly 50 ft....	May 12		30.6	
Jacques....	Both sides, from Ludlam St. northwesterly 360 ft.....	Dec. 20	720.0		6

SIDEWALKS—Continued.

STREETS	LOCATION	PASSED	LIN. FT. EDGE.	SQ. YDS. CONCRETE	Width in Ft.
			TO BE LAID		
Marsh	South side, from point 106.7 ft. west of west line School St. westerly in front Nos. 12 and 14.	1910 Dec. 20	31.0	18.9	6
Nottingham	North side, from Chelmsford St. to Powell St.	Oct. 25	663.1		6
	South side, from Chelmsford Street to Powell St.	Oct. 25	565.3	345.5	6
Pawtucket.	North side, from N. canal to Perkins St.	May 12	333.5		7
Sheldon....	North side, from Ware St. westerly.	1909 July 1		84.0	
State.....	West side, from point 306 ft. south of south line Moore St. southerly 51.9 ft. in front Nos. 33 and 35.	1910 May 17		31.7	
Thayer	South side, from Barclay St. easterly 208.7 feet.	July 26		127.5	
Victor.....	East side, from Ennell St. southerly about 400 ft.	Dec. 20		244.4	
Woodcock ..	Both sides, from Gershon Ave. to White St.	Dec. 6	769.2		5

STREETS LAID OUT AND ACCEPTED IN 1910

STREETS	LOCATION	WIDTH IN FT.	LENGTH IN FT.	RESOLUTION PASSED
Avon	From Fourth Ave. to Seventh Ave.....	40	1015.0	Oct. 25, 1910
Bodwell Av.	From White St. to Ger- shom Ave.....	40	242.4	Oct. 25, 1910
Chauncey..	From Shaw St. to B St.	40	901.0	Dec. 6, 1910
Chippewa..	From Bowden St. to Se- neca St	40	419 9	Aug. 9, 1910
Circuit Ave.	From Woburn St. east'y	40	883.1	Dec. 6, 1910
Court	From Manchester St. to Plain St	35	480.4	Dec. 6, 1910
D.....	From Wilder St. to Chauncey.....	40	441.2	Dec. 6, 1910
Fruit.....	From Boston Road to Marshall Road.....	40	617.2	Dec. 6, 1910
Harris Ave.	From Shaw St. to B St.	40	882.4	Dec. 6, 1910
Houghton ..	From Plain St. to Par- ker St.....		92.8	Dec. 6, 1910
Jacques....	From Ludlam St. north- westerly	40	360.1	Dec. 20, 1910
Manahan ..	From Branch St. to Grove St.....	30	393.6	Dec. 6, 1910
Marsh	From School St. west'ly	40	145.6	May 24, 1910

STREETS LAID OUT AND ACCEPTED IN 1910
(Continued.)

STREETS	LOCATION	WIDTH IN FT.	LENGTH IN FT.	RESOLUTION PASSED
*Notting- ham	From Chelmsford St. to Powell St.....	40	654.2	July 5, 1910
Quebec.....	From London St. to Maple St.....	50 & 40	578.3	Dec. 20, 1910
Shaw.....	From Warwick St. to Wilder St....	40	221.9	Nov. 1, 1910
Shaw.	From Wilder St. to Chauncey St.....	40	482.4	Dec. 6, 1910
Stackpole..	From East Merrimack St. to Brown St	38	460.0	July 12, 1910
Weed	From Gorham St. east'ly	35	453.8	May 24, 1910
Wilder.....	From Parker St. to so. line Avery St	40	878.7	July 26, 1910
Woodcock..	From Gershom Ave. to White St.....	30	384.6	Dec. 6, 1910
			10,988.6	

* Formerly New Fletcher St.

Number of miles of accepted streets, Jan. 1, 1910.....	135.44
Number of miles of streets accepted in 1910.....	2.08
	<hr/>
Number of miles of accepted streets, Jan. 1, 1911.....	137.52
Number of miles of unaccepted streets, about.....	62.50

The lines and grade of a portion of Clark Rd. were changed by Resolution, passed Nov. 1, 1910.

Lawrence Street, from Watson Street to Wamesit Canal was widened and the grade thereof reestablished, and the construction of a steel and concrete bridge over River Meadow Brook on said street ordered by Resolution, passed August 9, 1910.

The construction of a bridge over River Meadow Brook on Congress Street was ordered by the City Council, August 9, 1910.

The grade of a portion of Smith St. was reestablished by Resolution, passed August 9, 1910.

Lincoln Street was widened 10 feet, from Border Street to Autumn Street, by Resolution, passed July 5, 1910.

SIDEWALKS ACCEPTED.

STREETS	LOCATION	DESCRIPTION	PASSAGE
Beacon ...	West side, from point 318.4 ft. north of north line Methuen St. northerly 50 ft. in front premises No. 466.....	Concrete	June 14, '10
Bellevue..	East side, from Sheldon St. southerly 45.6 ft.....	Concrete	June 14, '10
Crawford.	North side, from point 99.5 ft. east of east line White St. easterly 48 ft. in front premises Nos. 23 and 25.....	Concrete	Dec. 6, '10
Davidson.	South side, from Howe St. westerly 62.2 ft.....	Concrete	Aug. 2, '10
Fairmount	West side, from point 206 ft. south of Whitman St. southerly 192.8 ft. in front premises No. 239	Edge., Con. and planting strip	May 17, '10
Grace	West side, from point 202.3 ft. south of Liberty St. southerly 50 ft. in front premises Nos. 21 and 23.....	Concrete	Apr. 26, '10
Howe.....	West side, from Davidson St. southerly 126.6 ft.	Edge. and Con.	Aug. 2, '10
Powell ...	West side, from D St. northerly 50 ft. in front premises No. 87.....	Concrete	Nov. 29, '10
Sheldon ..	South side, from Bellevue St. easterly 80 ft.....	Concrete	June 14, '10
Whipple..	East side, from point 68.3 ft. north of north line Swift St. northerly 40 ft. in front premises No. 52	Concrete	Dec. 6, '10

SWEEPING STREETS

STREETS.	COST.
Adams.....	\$ 183 88
Andover	55 67
Anne	33 12
Appleton.....	184 06
Arch.....	17 57
Branch	162 16
Bridge.....	232 22
Cabot.....	69 30
Central	91 60
Chelmsford	410 78
Church	138 07
Concord.	38 60
Crosby.....	87 67
Davidson	75 40
Dummer.....	2 21
Dutton.....	229 68
East Merrimack.....	99 09
Favor.....	2 44
Fayette.....	74 42
First.....	62 35
Fletcher	198 51
Garnet.....	25 78
George.....	29 30
Gorham.....	542 40
Green.	33 90

SWEEPING STREETS—Continued.

STREETS	COST
Hale.....	\$ 82 02
Howe.....	7 52
Howard	76 06
Hurd	34 21
Jackson.....	105 33
Lakeview Ave.....	450 33
Lawrence.....	429 74
Mammoth Rd.....	103 29
Marion	1 01
Market	196 39
Merrimack.....	10 08
Middlesex ...	20 14
Moody St. Bridge.....	16 79
Mt. Vernon.....	63 17
New Moody.....	40 80
Pawtucket.....	270 42
Rock.....	106 07
Salem	58 26
School	162 21
Summer	6 04
Tanner	58 51
Thorndike.....	324 50
Tilden	19 46

SWEEPING STREETS—Continued.

STREETS	COST
Tolman Ave.	\$ 13 45
Tremont	12 84
Tucker	29 40
Twelfth	39 99
Tyler Park	51 96
Tyler..... .	50 57
Walker..... .	128 76
Warren..... .	25 97
Western Ave..... .	158 52
West Jackson..... .	59 47
William..... .	32 98
Worthen..... .	152 02
	<hr/>
	\$6,478 46

CLEANING STREETS.

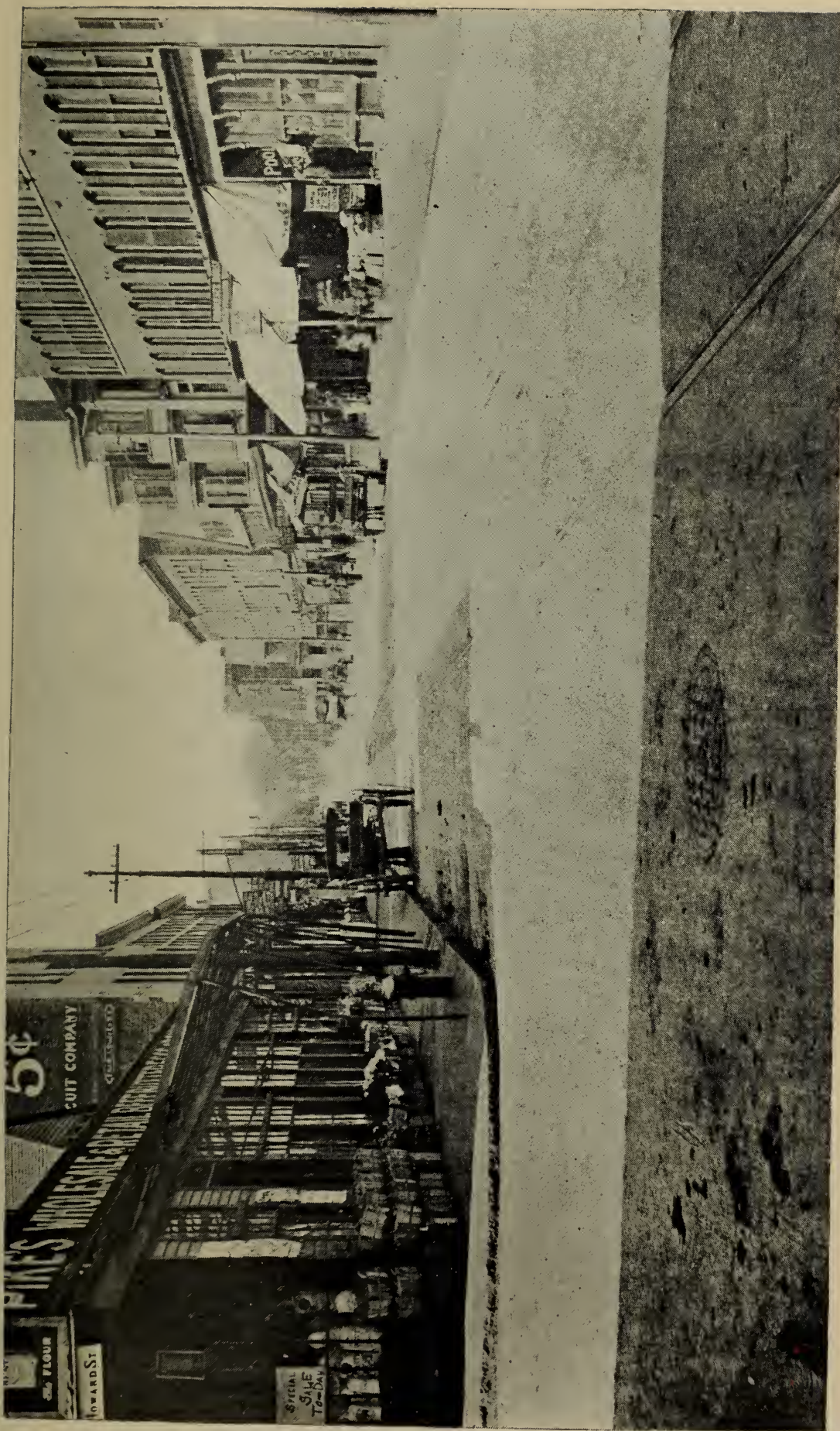
STREETS		COST
A.....	\$	42 16
Abbott.....		10 37
Agawam.....		21 39
Aiken Ave.....		85 14
Albion.....		5 59
Alder.....		17 82
Ames.....		8 06
Anderson.....		1 81
Andover.....		270 46
Anne.....		22 84
Andrews.....		36 41
Apple.....		5 36
Appleton.....		49 51
Ardell.....		1 03
Arch.....		13 81
Arlington.....		30 68
Arch.....		20 91
Arthur....		6 13
Ash.....		13 48
Astor.....		13 98
Atlantic.....		5 54
Auburn.....		14 88
Austin.....		20 15
Avon.....		7 56
B.....		43 16
Bachman.....		8 49
Barclay.....		15 65
Barker.....		15 99

CLEANING STREETS—Continued.

STREETS	COST
Barrington.....	\$ 1 92
Bartlett.....	40 53
Bassett	3 96
Beacon.....	156 81
Beaulieu.....	12 99
Beach.....	60 11
Beaver	4 88
Bellevue.....	14 10
Bellrose Ave.....	7 89
Belmont Ave.....	22 56
Belmont.....	14 82
Bertram.....	9 00
Billings.....	57 56
Blodgett	8 56
Blossom.....	20 48
Boisvert.....	12 99
Bowers.....	45 15
Bowden.....	3 44
Boylston.....	40 52
Boynton.....	16 72
Branch	24 57
Brickett Ave.....	1 01
Bridge.....	91 93
Broadway.....	87 96
Brooks.....	12 97
Brown	13 60
Burgess.....	9 61
Burlington Ave.....	4 81

CLEANING STREETS—Continued.

STREETS	COST
Burns.....	\$ 1 98
Burnside.....	3 98
Burt.....	10 05
Butler Ave.....	4 05
Butterfield.....	35 20
Bye.....	9 26
C.....	19 51
Cabot.....	19 24
Cady.....	8 11
Cambridge.....	39 17
Campaw.....	10 33
Canton.....	48 84
Carlton.....	7 18
Carter.....	15 72
Cedar.....	10 12
Centre.....	8 02
Chambers.....	11 59
Chapel.....	60 21
Charles.....	41 79
Chase Ave.....	11 04
Cheever.....	54 05
Chelmsford.....	342 49
Chester.....	8 28
Chestnut.....	42 00
Church.....	49 51
City Yard.....	70 94
Clare.....	10 81



APRIL 8, 1911, 10.22 A. M. NEW PAVEMENT, MIDDLESEX STREET. LOOKING WEST FROM HOWARD STREET.

CLEANING STREETS—Continued.

STREETS	COST
Clark.....	\$ 29 74
Clitheroe.....	32 27
Coburn.....	111 24
Colburn..	3 83
Colonial Ave.....	53 77
Columbus Ave.....	10 89
Common	30 56
Concord.....	65 48
Congress.....	32 26
Coolidge	9 79
Coral.....	16 65
Cosgrove.....	14 09
Corner.....	7 62
Courtland.....	2 37
Crawford	30 03
Crescent.....	10 28
Cross	71 38
Crowley	16 30
Cumberland Rd	20 76
Cushing	19 64
D	23 83
Dalton.....	14 00
Daly.....	8 47
Dane.....	3 88
Dartmouth.....	11 98
Davenport	18 37
Davidson	3 32
Dodge	8 85

CLEANING STREETS—Continued.

STREETS	COST
Dover.....	\$ 38 73
Dummer.....	30 99
Dunfey.....	8 52
Durant.....	45 45
Dutton.....	26 68
East Merrimack.....	88 53
East Pine.....	12 20
Eaton.....	3 05
Edson.....	9 34
Eight Ave.....	19 48
Eight.....	16 75
Eighteenth.....	48 98
Eleventh.....	43 32
Elliott.....	21 50
Ellis Court.....	3 55
Elm.....	45 27
Ellsworth.....	10 84
Emery.....	3 44
England.....	5 02
Ennell.....	18 41
Epping.....	18 15
Essex.....	20 73
Eustis.....	57 49
Everett.....	8 25
Exeter.....	14 26
Fairfield.....	1 92
Fairmount.....	90 10

CLEANING STREETS—Continued.

STREETS	COST
Fairview.....	\$ 7 65
Farmland Rd.....	8 48
Favor.....	9 26
Fay.....	10 99
Fayette	27 06
Fenwick.....	9 61
Fernald.....	3 95
Fifth Ave.....	33 42
Fifth.....	52 92
First.....	107 80
Fisher.....	1 81
Fletcher.....	114 76
Florence Ave.....	35 63
Floyd.....	12 07
Ford.....	44 99
Forrest	39 06
Fort Hill Ave.....	82 66
Foster.....	64 81
Fourth Ave	40 62
Fourth.....	65 19
Franklin	19 09
French.....	3 92
Fremont	28 17
Fulton... ..	51 82
Gardner Ave	17 76
Garnet.....	10 45
Gates... ..	26 27
Georgia Ave.....	15 74

CLEANING STREETS—Continued.

STREETS	COST
George.....	\$ 6 39
Gershom Ave.	52 98
Gibson	19 79
Glidden Ave.....	8 39
Gold.....	4 53
Gorham.	68 89
Grace.....	13 70
Grand	50 37
Green...	2 44
Grove.....	51 27
Hale.....	60 67
Hall	56 06
Hampshire.....	48 73
Hancock Ave	15 27
Hanover	16 27
Hanks.....	57 04
Harding	8 51
Harvard	38 00
Harrison.....	16 42
Hastings.....	26 31
Hawthorne.....	6 76
Hazelton	1 02
Hildreth.....	79 53
High.....	102 84
Highland.....	42 29
Highland Ave.....	33 49
Hobson	9 90
Holyrood Ave.....	30 19

CLEANING STREETS—Continued.

STREETS	COST
Horn.....	\$ 4 25
Houghton	7 50
Hovey.....	12 37
Howard.....	84 80
Howe	6 73
Hoyt Ave.....	17 30
Hudson	12 70
Humphrey	17 92
Huntington	22 05
Hurd	2 06
Hutchins,.....	1 74
Hutchinson.....	7 21
Ina	8 11
James.....	13 69
Jefferson.....	25 45
Jenness.....	40 32
Jewett	45 75
John.....	2 15
John St. Ave	1 54
June.....	26 24
Keene.....	12 08
Kimball Ave	9 23
King.....	5 35
Kinsman.....	23 87
Kirk	11 34

CLEANING STREETS--Continued.

STREETS	COST
Kitson.....	2 03
Knapp Ave.	\$ 10 30
Lagrange.....	18 26
Lamb.....	26 46
Lane.....	24 36
Lang.....	3 37
Lakeview Ave.....	13 26
Laurel.....	19 46
Lawson.....	8 04
Lawrence.....	71 86
Lee.....	28 09
Lenox.....	4 25
Leroy.....	12 38
Leverett	17 97
Lewis.....	25 29
Liberty.....	68 15
Lilley Ave.....	29 81
Lincoln.....	56 63
Linden.....	41 02
Lipton.....	7 78
Little.....	11 41
Livermore.....	8 55
Livingston.....	33 65
Livingston Ave.....	20 59
Lombard.....	9 49
London.....	43 18
Loring.....	15 75
Ludlam.....	61 47

CLEANING STREETS—Continued.

STREETS	COST
Lundberg.....	\$ 26 55
Lura	4 84
Lyons.....	16 19
Madison	17 24
Main.....	12 39
Mammoth Rd.....	60 38
Manahan	8 09
Manchester	12 87
Mansur.....	44 13
Maple.....	3 84
Marginal	14 33
Marion.....	7 96
Marlborough.....	33 89
Marsh	1 07
Marshall	18 58
May	12 32
McKinley Ave.....	6 16
Mead	8 14
Meadowcroft.....	43 80
Meadow Rd.....	1 92
Methuen	77 13
Middlesex.....	151 70
Midland	35 73
Mill.....	10 37
Moody	156 34
Moore.....	95 18
Morton	9 10
Mt. Grove.....	26 91

CLEANING STREETS—Continued.

STREETS		COST
Mt Hope	\$	33 86
Mt. Vernon		84 86
Mt. Washington		34 98
Myrtle		68 86
Nesmith		73 99
New		5 77
Newell		3 89
New Fletcher		1 73
Newhall		21 61
Nicolett		15 09
Nichols		14 16
Nineteenth		38 40
Ninth		9 24
Norcross		46 10
North		12 15
Oak		19 29
Oakland		9 33
O'Connell		4 30
Oliver		8 00
Osgood		15 51
Ottawa		3 61
Otis		3 84
Park		31 52
Parker		40 56
Parkview Ave		30 12
Pawtucket		150 43

CLEANING STREETS—Continued.

STREETS	COST
Payton	\$ 4 21
Pearl.....	27 07
Perkins.....	36 86
Perry.....	65 36
Phillips	5 02
Pihl	3 90
Pine.....	107 66
Plain.....	35 53
Plymouth.....	2 96
Pollard.....	6 96
Pond	7 75
Porter	26 43
Powell.....	54 41
Princeton ..	50 23
Prospect.....	1 81
Puffer	8 25
Queen.....	22 63
Race.....	20 99
Railroad.....	11 51
Ralph	4 85
Rea.....	3 44
Read	46 86
Reservoir	36 83
Rhodora	12 21
Richards	24 80
Richmond.....	8 11
Richardson	14 91

CLEANING STREETS—Continued.

STREETS	COST
Riverside	\$ 156 92
Robert	9 48
Robbins	30 19
Robinson	6 01
Rock	42 56
Rogers	117 60
Rolfe	18 69
Roper	13 35
Ross Ave	1 27
Royal	17 48
Salem	13 33
Sanborn	7 41
Sanders Ave	46 96
Sarah Ave	23 26
Saratoga	7 06
Sargent	13 70
Sayles	13 89
School	188 00
Second	49 33
Second Ave	15 10
Seventh Ave	16 98
Seventh	25 33
Shaffer	10 09
Shaw	48 24
Sheldon	13 55
Sherman	55 82
Simpson	20 24
Sixth	77 59

CLEANING STREETS—Continued.

STREETS	COST
Sixth Ave	\$ 36 22
Smith.....	50 87
Smith Ave.....	3 53
Somerset.....	7 02
South.....	140 55
South Canton.....	6 03
South Highland	25 13
South Loring.....	25 88
South Walker	37 33
South Whipple	28 23
Spaulding.....	12 22
Spring	1 92
Stackpole.....	96 23
Stanley.....	24 04
Starbird.....	3 81
State	9 47
Stevens	260 95
St. James	2 33
Suffolk	20 21
Summer.....	47 94
Sutherland	7 70
Swift.....	8 72
Sydney.....	9 76
Talbot.....	11 91
Tanner	31 24
Tenth	61 74
Third	156 44
Third Ave.....	20 69

CLEANING STREETS—Continued.

STREETS	COST
Thirteenth.....	\$ 58 68
Thorndike.....	193 44
Tolman Ave.....	17 13
Twelfth.....	6 76
Union.....	33 55
Upham.....	1 81
Varnum Ave.....	265 33
Varnum.....	58 34
Varney.....	23 61
Vernon.....	5 91
Victoria.....	20 58
Wachusett.....	24 23
Waite.....	5 70
Walker.....	63 53
Walnut.....	21 61
Wamesit.....	16 42
Wannalancit.....	14 77
Warren.....	1 21
Ward.....	52 11
Ware.....	8 95
Warnock.....	2 15
Warren.....	6 54
Warwick.....	42 42
Washington.....	24 66
Waterford.....	13 51
Watson..	15 65

CLEANING STREETS—Continued.

STREETS	COST
Waverly Ave.....	20 83
Wentworth Ave.....	78 81
West.....	48 16
West Adams.....	10 26
West Bowers.....	6 74
West Eight.....	4 26
West Eleventh.....	1 93
Western Ave.....	7 10
Westford.....	59 97
West Forrest.....	6 97
West Fourth.....	33 36
West Fifth.....	25 05
West Ninth.....	6 34
West Third.....	6 50
West Sixth.....	93 60
West Third.....	25 86
Wedge.....	13 78
Whipple.....	24 12
White.....	41 94
Whiting.....	3 88
Whitney Ave.....	39 50
Willard.....	8 13
Wilder.....	136 96
Willie Ave.....	7 77
Willie.....	55 56
Willow.....	19 06
Windsor.....	6 50
Winter.....	23 99

CLEANING STREETS—Continued.

STREETS		COST
Winthrop Ave	\$	7 50
Woburn.....		7 17
Woodbury Ave.....		96
Woodbury		2 11
Woodward.....		21 77
Worthen.....		34 08
Wright.....		4 08
Wyman.....		41 10
		<hr/>
		\$13,433 16

REPAIRING STREETS

STREETS	Labor	Teaming	Stock	Total
A	\$ 1 25	\$ 43		\$ 1 68
Appleton.....	1 00	2 10		3 10
Aiken.....	5 00	7 36		12 36
Adams.....	57	70		1 27
Andover	10 50	14 28	\$ 13 80	38 58
Arlington.....	2 44			2 44
Albert	37 88	34 00		71 88
Boulevard.....	553 62	134 43	108 77	796 82
Beacon.	9 47	4 00		13 47
Billings.....	143 38	6 00		20 38
Butman Road.....	1 13	3 00		4 13
Broadway	9 48	11 87	27 80	49 15
Bridge.....	9 56	9 00		18 56
Centre	1 00	3 00	4 84	8 84
Central	56	70		1 26
Chelmsford	10 25	17 37		27 62
Cheever.....	1 50	1 93		3 43
Crescent	75	64		1 39
Cumberland Road	23 63	11 00		34 63
D	2 25	1 87		4 12
Dracut.....	42 88	30 00		72 88
Endicott.....	39 37	18 50		57 87

REPAIRING STREETS—CONTINUED

STREETS	Labor	Teaming	Stock	Total
Edson	\$ 2 50	\$ 3 15	\$ 2 50	\$ 8 15
First	1 50	1 93		3 43
Forrest	50	43		93
Front	4 63	6 00		10 63
George	11 50	20 00		31 50
Grove	5 10	6 00		11 10
Gorham	88	3 00	2 50	6 38
Hampshire	4 50	3 00	8 70	16 20
Hurd	2 25			2 25
High	1 25	1 61		2 86
Inland	50	43		93
Lawrence	1 25	1 58	2 20	5 03
Lakeview Ave	1 69	1 40		3 09
Lincoln	2 62	1 00		3 62
Manchester	1 50	1 93		3 43
Market	1 63		25	1 88
Main	2 63	1 50		4 13
Midland	75	65		1 40
Middlesex	4 50	5 50		10 00
Nichols	1 13			1 13



MAY 10, 1910, 2.43 P. M. OLD PAVEMENT, DOUBLE TRACKS, GORHAM ST. LOOKING SOUTH FROM MIDDLESEX ST.

REPAIRING STREETS—CONTINUED

STREETS	Labor	Teaming	Stock	Total
Parker	\$ 3 25	\$ 11 86		\$ 15 11
Plain	67 93	43 60		111 53
Perkins.	1 00	1 31	2 20	4 51
Poplar.....	2 00	3 00		5 00
Rock.	4 25	4 74	6 60	15 59
Shaw	5 80	3 67		9 47
School	22 56	20 16	4 68	47 40
Salem	1 13	1 05		47 40
Smith.....	5 25	3 00		8 25
St. James..	9 00	13 50	10 80	33 30
Tanner	5 25	3 00		8 25
Talbot.....	50	65		1 15
Thorndike	17 71	16 21	24 75	58 67
Third.....	3 00	3 86		6 86
Union	1 00	3 00		4 00
Upham	1 56	1 31	2 20	5 07
Varney	3 19	1 05		4 24

REPAIRING STREETS—CONTINUED

STREETS	Labor	Teaming	Stock	Total
Walden	\$ 4 00	\$ 5 25		\$ 9 25
West Fourth	2 00	3 50	\$ 4 08	9 58
Willow	2 73	1 00	2 42	6 15
Wannalancit	4 50	3 50		8 00
Winter.....	10 50	5 00		15 50
Willard.....	90 74	28 00		108 74
Worthen	1 50	4 73	4 40	10 63
	\$1,101 63	\$557 24	\$233 49	\$1892 36

SUNDRY WORK

DESCRIPTION	COST
Boulevard, maintenance.....	\$ 883 54
Cinder crossings.....	24 82
Cutting down sidewalks.....	422 66
Cleaning streets.....	42,656 19
Cleaning street yard....''''.....	38 51
Lowering driveways.....	15 75
Ledge, operating.....	9,719 45
Ledge, cleaning.....	1,904 51
Putting away sleds.....	41 94
Piling paving at Fletcher St., ledge	665 41
Repairing crossings.....	20 69
Relaying gutters.....	34 16
Repairing sidewalks.....	92 01
Rolling streets.....	167 34
Repairing steam rollers.....	296 90
Removing snow.....	18,681 10
Removing boulders.....	30 93
Shaping gutters.....	20 00
Setting bound stones.....	362 00
Storing cinders.....	902 33
Storm guards.....	34 61
Sodding sidewalks.....	52 00
Sanding sidewalks.....	2,192 27
Teaming sand to yard.....	688 29
Top dressing sidewalks.....	11 75
Teaming paving and crushed stone to yard	317 31
Watering streets.....	172 40
Work done for other departments.....	701 93
Repairing boulevard.....	976 82
	<hr/> \$ 81,947 62

SUMMARY OF STREET DEPARTMENT EXPENDITURES.

Salaries.....	\$ 4,000 19
Sundries, (Bills)	135,749 37
Labor,	
Yard	14,198 84
Boulevard, (Maintenance)	883 54
Cleaning streets.....	42,656 19
Cinder sidewalks	4,626 02
Grading streets, gravel.....	4,484 40
Grading streets, cinders.....	303 87
Ledge, operating.....	10,361 15
Ledge, cleaning	2,407 31
Macadamizing.....	5,058 88
New stone walls.....	1,391 48
New fences.....	570 42
New edgestones.....	2,822 98
New granite crossings.....	49 00
Paving, granite.....	4,612 10
Paving, granite block on Hassam concrete foundation	14,266 58
Paving gutters	500 87
Repairing bridges.....	2,957 53
Resetting edgestones.....	1,218 71
Repairing sidewalks.....	105 49
Repaving gutters	32 00
Rolling streets.....	149 09

SUMMARY OF STREET DEPARTMENT
EXPENDITURES—Continued.

Relaying sidewalks	\$ 310 95
Repairing streets	1,457 24
Sanding sidewalks.....	2,192 27
Sundry work.....	6,621 78
Teaming sand to yard.....	688 29
Top dressing macadam.....	2,307 34
Removing snow	18,877 05
Repaving streets.....	790 36
Relaying crossings.....	156 68
Repairing granite paving.....	211 60
New brick sidewalks.....	119 49
Repairing asphaltina	410 85
Rebuilding bridges	9,658 04
	<hr/>
	\$297,207 95

REPORT OF THE

STREETS GRADED AND RESURFACED WITH GRAVEL

STREETS	LOCATION	LIN. FT.	SQ. YDS.	LABOR	TEAMING	TOTAL
†Clark Rd.	From Andover St., southerly	1,400.0		\$ 2,333 15	\$ 809 50	\$ 3,142 65
††Cornell...	From Princeton St., northerly			207 16	191 00	398 16
Dutton	From Moody St., northerly to B & M. R. R. track	226.0	630.6	65 26	104 00	169 29
Dalton	From Exeter St. to Farmland Rd.	345.0	1,073.0	64 64	39 00	103 64
Liberty	From School St. to Smith St.	426.0	1,460.0	80 73	64 69	145 42
Mt. Grove..	Between Fifth and Sixth Aves.	100.0	400.0	153 03	101 00	254 03
Starbird...	From Varnum to Woodward Ave..	638.0	1,985.0	551 99	405 40	957 39
Woodw'd av	From Waterford St., westerly	240.0	747.0	28 41	11 00	39 41
		3,375.0	6,295.6	\$ 3,484 40	\$ 1,725 59	\$ 5,209 99

† Unfinished.

†† Reported 1909; finished 1910.

STREETS SURFACED WITH CINDERS.

STREETS	LOCATION	LIN. FT.	SQ. YDS.	LABOR	TEAMING	TOTAL
Fruit	From Boston Road, westerly.....	345		\$ 37 85	\$ 65 00	\$ 102 85
Reservoir...	From Beacon St., easterly.....	240	400.0	94 04	281 70	375 74
Richards ..	From Beacon St., easterly.....	665	1,086.1	48 10	59 00	107 10
Tenth.....	From Mt. Pleasant St , westerly	100	311.0	15 50	19 00	34 50
Vernon.....	From Third St., northerly.....	55	75.6	8 38	4 00	12 38
		1405	1,872.7	\$ 203 87	\$ 428 70	\$ 632 57

GRANOLITHIC SIDEWALKS LAID.

STREETS	LOCATION	SQ. YDS.	LABOR	STOCK	TEAMING	TOTAL
Kirk.....	West side, in front Kirk St. Church	103.10	\$	\$ 90 30	\$	\$ 90 30
Middlesex..	North side, in front Nos. 209 and 211	63.18		55 28		55 28
Prescott ...	West side, from Merrimack Square southerly to passage-way to Colonial Bldg. (Regulation for paving)	46.78		40 93		40 93
		213.06		\$186 51		\$186 51

\$186,34 paid by abutters.

BRICK SIDEWALKS LAID.

Dutton.....	West side, between Music Hall Ave and Market St.....	81.20	27 99	55 00	14 00	96 99
Merrimack.	Cor. Colburn St....	29.70	9 00	8 00	5 50	22 50
		110.90	\$36 99	\$63 00	\$19 50	\$119 49

WALLS BUILT.

STREETS	LOCATION	LIN. FT.	CU. YDS.	COST
Butler Ave..	South side, at Nos. 30 and 32.....	138.6	47.4	\$ 295 31
Clark Road	East side, in front premises Ella P. Marden.....	128.7	17.9	28 16
Clark Road	West side, in front premises Edw. P. and Jennie E. Clark.	875.0	177.2	196 09
Fletcher....	At Ledge lot.....	260.4	49.0	440 90
Smith.....	East side, on Horne lot.....	206.2	20.2	86 26
Washington	West side, at Nos. 19, 23, 27, 35 and 37.....	100.8	25.6	277 46
West Sixth.	In front Fire Engine House	38.0		67 30
		1747.7	337.3	\$1,391 48

NEW GRANITE CROSSINGS.

STREETS	LOCATION	LIN. FT.	LABOR	TEAMING	STOCK	TOTAL
Orchard ...	At Varnum Ave.....	75	\$37 00	\$12 00	\$58 32	\$107 32

BRICK SIDEWALKS RELAID

STREETS	LOCATION	SQ. YDS.	LABOR	TEAMING	STOCK	TOTAL
Anne.....	East side, between Merrimack and French Streets.....	181.30	\$ 66 76	\$ 6 00	\$ 18 00	\$ 90 76
Bridge.....	East side, between Canal and Canal St.....	4.00	2 10			2 10
Church.....	At No. 240.....	20.00	2 81	2 10	2 30	7 21
Dutton.....	West side, between Music Hall Av. and Market St. m.....	86.30	29 78			29 78
French.....	South side, between Kirk St. and Anne St.....	145.60	36 76	8 50	6 00	51 26
High.....	West side, between Andover and Pond Sts.....	15 00	6 50	1 05	1 00	8 55
Hurd.....	North side, front of O'Dowd Block.	25.60	5 06	3 85	10 50	19 41
Kirk.....	East side, between Paige St. and French St... ..	10.00	4 80			4 80
Market.....	North side, Maiden Lane, westerly	29.00	11 25			11 25
Middle.....	North side, at Joyce's Building....	20.00	5 00		2 40	7 40
Merrimack.	Both sides, from B.&M.R.R. tracks to west side Tilden St.....	274.20	118 63			118 63
		811.00	\$ 289 45	\$ 21 50	\$ 40 20	\$ 351 15

STREETS REPAVED.

STREETS	LOCATION	SQ. YDS.	LABOR	TEAMING	STOCK	TOTAL
Anne.....	Opposite St. Anne's Church	61.20	\$ 25 13	\$ 6 00	\$ 6 00	\$ 37 13
Central	From Appleton St. southerly.....	353.34	227 84			227 84
Gorham.....	From Appleton St. southerly.....	77.51	49 43			49 43
Branch.....	Between Nichols and Smith Sts....	581.00	192 38	35 00	16 00	243 38
Merrimack.	Between B. & M. R.R. and Tilden St	541.80	212 89	22 00	24 00	258 89
Perry.....	At Andover St	26.00	15 31			15 31
Prescott ...	Driveway rear of Harrington Bldg.	8.00	4 38			4 38
		1648.85	\$727 36	\$ 63 00	\$ 46 00	\$836 36

REPAIRS OF GRANITE BLOCK PAVEMENT

STREETS	LOCATION	SQ. YDS.	COST
Branch.....	At Queen St.....	135.5	\$ 47 43
Dutton.....	West side, between MusicHall Ave. and Market St.....	81.2	29 76
E. Merrimack.	At garage, east end of Bridge	21.3	23 06
Jackson.....	At storage warehouse.....	61.6	34 16
Market.....	At Maiden Lane.....	61.0	37 32
Market.....	At Canal Bridge.....	45.0	27 56
Market.....	At Cabot Street.....	20.0	6 41
Merrimack....	At Hanover Street	7.5	2 80
Merrimack....	At Suffolk Street.....	10.8	3 10
		443.9	\$ 211 60

REPAIRS OF ASPHALTINA PAVEMENT

STREETS	LOCATION	SQ. YDS.	COST
Gorham	Between B. & M. R. R tracks and Cosgrove St.....	2,372.2	\$ 4,151 35
Mammoth Rd..	Between Fourth and Eighth Aves	594.4	1,040 20
Suffolk.....	Between Broadway and Ad- ams St	124.5	217 87
Westford.....	Between Chelmsford and Smith Sts.....	504.1	882 17
Westford.....	Between Smith and Loring Sts	1,391.7	2,435 47
		4,986.9	\$ 8,727 06

RELAYING CROSSINGS.

STREETS	LOCATION	LIN. FT.	COST
Bowers	At Wannalancit St.....	60	\$ 62 70
Common ...	At Morrill School.....	46	11 00
Methuen ...	At Eleventh St.....	30	7 00
Merrimack..	At Hanover St.	30	15 19
Merrimack..	At Suffolk St.....	26	11 66
Rockdale Av.	At Bowers St.....	36	23 03
W. Bowers..	At Wannalancit St.....	30	26 10
		258	\$156 68

GUTTERS PAVED.

STREETS	LOCATION	LIN. FT.	COST
Moody	South side, between River- side St. and Gardner Ave..	223	\$ 68 63
Methuen ...	From Beacon St. easterly ...	949	235 01
Nesmith ...	Cor. Oak St.....	104	40 48
Stevens	East side, at No. 92.....	25	8 75
West Third.	Near Coburn St	60	20 00
West Third.	At No. 82	25	9 50
White.....	North side, from Dracut St. to Endicott St	220	61 60
White.....	North side, from west line Woodcock St. easterly	208	56 90
		1814	\$500 87

PAVEMENT LAID WITH OLD GRANITE BLOCKS

STREETS	LOCATION	Lin. Ft.	Sq. Yds.	Labor	Teaming	Stock	Total
Chelmsford..	C At B. & N. St. Ry. turnout between Nor- cross and Upham Streets	249.0	646.1	\$ 395 93	\$ 126 00		\$ 521 93
Howe..	A From East Merrimack St. southerly.....	218.5	565.4	462 98	285 00	\$ 226 28	974 26
*Middlesex..	B From B. & M. R. R. track to Howard St.	201.5	833.9	712 86	247 00	192 44	1,152 30
Perry..	A From Andover Street southerly	1234.8	3889.5	2,254 72	1,979 63	1,371 48	5,605 83
*School.....	A From Pawtucket Bridge southerly.	282.0	910.6	544 57	458 00	224 94	1,227 51
West Sixth..	A In front Fire Engine House.....	75 5	336.4	172 30	69 50	105 60	347 40
West Sixth..	D In front Fire Engine House.....	68.8	76.4	65 36	30 40	17 10	112 86
Worthen.....	In B. & N. St. Ry. track at Broadway..	4.4	15.4	3 38			3 38
		2334.5	7273.7	\$4,612 10	\$3,195 53	\$2,137 84	\$9,945 47

A—Macadam base. B—Rolled gravel base, blocks grouted. C—Rolled gravel base.
D—Macadam base, blocks grouted. *Repaired.



APRIL 7, 1911, 2.47 P. M. GORHAM-ST. PAVEMENT (NEW) WITH SINGLE TRACK. LOOKING SOUTH FROM MIDDLESEX ST.

CINDER SIDEWALKS BUILT IN 1910

STREETS	LIN. FT.	LABOR	TEAMING	TOTAL
A.....	168	\$ 3 80	\$ 3 00	\$ 6 80
Adams... ..	425	11 89	8 59	20 48
Albert	656	49 74	44 36	94 10
Agawam.....	795	22 80	36 50	59 30
Andrews.....	75	3 48	15 00	18 48
Avon.....	240	8 87	12 65	21 52
Barclay.... ..	165	5 94	4 29	10 23
Beacon.....	450	12 73	32 00	44 73
Beaver	640	28 60	42 00	70 60
Bellevue.....	108	2 32	8 00	10 32
Billerica	150	12 70	7 51	20 21
Bowden.....	460	27 55	18 99	46 54
Bridge.....	414	17 84	29 50	47 34
Brookside.....	160	6 34	3 15	9 49
Butler Ave.....	645	23 59	21 48	45 07
Cabot.....	30	1 50	1 50	3 00
Cambridge.....	190	5 91	5 50	11 41
Canton.....	200	4 63	3 00	7 63
Carlisle.....	600	55 11	70 70	125 81
Carter	180	6 94	17 50	24 44
Chelmsford.....	248	48 23	68 93	117 16
Chippewa.....	100	6 91	6 26	13 17
Circuit Ave.....	1,320	38 20	15 48	53 68

CINDER SIDEWALKS BUILT IN 1910—Continued

STREETS	LIN. FT.	LABOR	TEAMING	TOTAL
Clitheroe.....	102	\$ 6 21	\$ 4 73	\$ 10 94
Concord.....	40	89	1 75	2 64
Cornell.....	600	30 75	22 00	52 75
Corson.....	192	5 07	10 50	15 57
Crawford	929	27 80	35 14	62 94
Crescent.....	768	36 81	17 25	54 06
Cross	80	2 54	2 10	4 64
Dalton	1,050	68 49	32 15	100 64
Daly.....	174	3 80	3 00	6 80
Dane.....	200	13 89	12 46	26 35
Dracut.....	100	4 02	4 50	8 52
East Merrimack.....	144	4 63	13 50	18 13
Easton.....	1,815	78 48	26 56	105 04
Eleventh.....	150	3 94	7 70	11 64
Emery	157	8 91	7 34	16 25
Endicott	150	10 19	6 00	16 19
England.....	270	3 42	1 71	5 13
Ennell.....	2,300	80 43	80 73	161 16
Eugene	525	19 95	11 80	31 75
Exeter.....	250	14 85	9 17	24 02
Fairmount	698	39 41	27 53	66 94
Fletcher.....	380	10 13	4 20	14 33
Fifth Ave	912	40 36	56 00	96 36

CINDER SIDEWALKS BUILT IN 1910—Continued

STREETS	LIN. FT.	LABOR	TEAMING	TOTAL
Fourth Ave.....	625	\$ 26 30	\$ 24 70	\$ 51 00
Georgia Ave	150	10 13	8 10	18 23
Gates.....	50	1 83	1 66	3 49
Gorham.....	246	6 21	4 44	10 65
Hale.....	1,654	42 71	48 27	90 98
Hampshire.....	75	1 50	92	2 42
Harvard	150	2 32	3 00	5 32
High.....	200	6 34	5 25	11 59
Holyrood Ave.....	1,384	108 36	93 43	201 79
Houghton	117	3 80	6 00	9 80
Hovey.....	200	5 51	6 13	11 64
Humphrey	3,750	70 67	35 00	105 67
Jenness.....	521	12 66	15 00	27 66
L.....	15	1 17	61	1 78
Lane.....	630	15 19	6 30	21 49
Lawrence.....	1,545	46 19	33 04	79 23
Lenox..	246	7 60	14 00	21 60
Leverett.....	150	12 63	7 50	20 13
Lexington.....	873	26 60	28 35	54 95
Liberty.....	75	1 59	2 50	4 09
Lipton	114	3 80	4 50	8 30
Manchester	294	8 94	12 17	21 11

CINDER SIDEWALKS BUILT IN 1910—Continued

STREETS	LIN. FT.	LABOR	TEAMING	TOTAL
Maple.....	245	\$ 5 51	\$ 3 50	\$ 9 01
Marginal	1,380	34 30	17 40	51 70
Marion.....: ..	210	5 07	3 15	8 22
Merrill.....	20	77	1 05	1 82
Methuen	913	222 43	137 35	359 78
Midland.....	855	15 21	16 50	31 71
Middlesex.....	1,355	58 82	35 20	94 02
Moody	450	27 34	16 50	43 84
Moore.....	1,135	31 70	28 10	59 80
Mt. Hope.....	90	5 07	7 70	12 77
Norcross.....	750	11 41	15 75	27 16
Otis	100	7 29	17 50	24 69
Oliver	80	3 13	6 00	9 13
Pine.....	336	6 34	7 50	13 84
Plain.....	963	40 06	30 30	70 36
Puffer	540	10 97	12 00	22 97
Parker.....	570	9 26	12 50	21 76
Powell.....	285	6 34	8 50	14 84
Perry.....	448	11 01	6 70	17 71
Rea.....	640	33 16	53 30	86 46
Richards	990	25 88	16 50	42 38
Richardson.....	885	56 29	95 00	151 29

CINDER SIDEWALKS BUILT IN 1910—Continued

STREETS	LIN. FT.	LABOR	TEAMING	TOTAL
Riverside	100	\$ 3 48	\$ 2 77	\$ 6 25
Rogers.....	631	34 10	59 30	93 40
Ross Ave.....	100	4 19	12 00	16 19
School	388	9 26	8 30	17 56
Sherman.....	100	3 81	3 50	7 31
Sixth Ave.....	757	32 87	54 63	87 50
Starbird.....	100	14 80	7 00	21 80
So. Wilder.....	25	2 00	3 50	5 50
Stackpole.....	126	4 63	13 50	18 13
Stevens.....	310	5 80	4 50	10 30
St. James.....	156	5 07	7 00	12 07
Sycamore.....	145	6 91	5 21	12 12
Sheldon.....	130	2 75	2 47	5 22
State..	1,050.	24 76	27 50	52 26
Tenth.....	2,110	36 00	30 00	66 00
Thayer	963	22 68	17 00	39 68
Third Ave.....	40	2 73	3 00	5 73
Tolman.....	654	24 45	64 00	88 45
Tyler Park.....	195	3 80	5 00	8 80
Varnum Ave.....	2,100	68 93	115 15	184 08
Vernon.....	648	33 38	26 00	59 38
Victor.....	860	41 63	34 03	75 66

CINDER SIDEWALKS BUILT IN 1910—Continued

STREETS	LIN. FT.	LABOR	TEAMING	TOTAL
Victoria	775	\$ 51 33	\$ 51 35	\$ 102 68
Washington.....	1,000	26 74	29 73	56 47
Wedge.....	285	10 13	12 50	22 63
Weed	446	13 79	13 14	26 93
West Bowers.....	341	12 50	15 00	27 50
Westford.....	500	12 66	15 00	27 66
West Ninth.....	120	5 94	3 67	9 61
Whidden.....	189	2 32	8 00	10 32
White.....	100	3 82	4 20	8 02
Wilder.....	265	2 76	2 85	5 61
Winter.....	370	17 82	15 42	33 24
Woburn.....	790	42 87	24 51	67 38
Wood.....,.....	500	23 00	40 00	63 00
Wright.....,.....	299	25 63	39 00	64 63
Wyman.....	110	4 86	3 69	8 55
	64,467	\$ 2,614 10	\$ 2,563 00	\$ 5,177 10

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GRANITE BLOCK PAVEMENT ON HASSAM CONCRETE FOUNDATION.

GORHAM STREET—From Middlesex Street to South Line Appleton Street.

APPLETON STREET—From Central Street to Gorham Street.

CENTRAL STREET—From Tower's Corner to South Line Appleton Street.

Linear Feet	Square Yards	Cost per Sq. Yd.	Total Cost Exclusive of regulation	Labor, Materials, etc	Sub-Grade	Founda-tion	Paving	Grout-ing	Regu-lating	Totals
GORHAM 319.5	1244.13			Labor	\$499 91					
				Teaming	215 62					
APPLETON 132.0	500.49			Use of roller	77 90					
				Use of tools	24 45					
CENTRAL 248.0	1260.66			Engineering	35 87					\$ 853 75
699.5	3005.28	\$3.21+	\$9,650 92	624.19 tons crushed stone.....		\$686 61				
				Hauling crushed stone.....		342 42				
				1106.51 bags cement.....		401 11				
				4426.1 bags sand		238 79				
				Water		16 56				
				Use of mixer.....		122 02				
				Use of roller		141 34				
				Labor		404 04				
				Use of tools.....		48 90				
				Royalty		293 71				
				Engineering.....		35 88				
				2937.12 sq. yds. paving blocks laid.....			\$3,664 05			2,731 38
				Hauling paving blocks.....			266 80			
				136.97 loads cushion sand ...			276 87			
				Labor			683 18			
				Watchmen			183 93			
				Advertising.....			17 57			
				Engineering.....			71 74			\$5,164 14
				1053.76 bags cement.....				\$381 97		
				1053.76 bags sand				56 86		
				27.61 tons crushed stone.....				30 13		
				Hauling crushed stone.....				14 68		
				Water				15 84		
				Use of mixer.....				107 87		
				Labor				269 84		
				Use of tools.....				24 46		
				Total.....						\$ 901 65
				281.7 feet new edgestone.					\$ 131 83	\$ 9,650 92
				450.1 feet edgestone reset. ...					96 09	
				100.2 feet new curved edge stone					79 85	
				247.0 sq. yds. hard concrete..					247 00	
				274.1 sq. yds. hard top dress- ing					191 87	
				24.2 sq. yds. concrete.....					10 89	
				146.1 sq. yds. top dressing....					43 84	
				6.4 sq. yds. brick walk relaid.					2 10	
				430.85 sq. yds. repaving.....					277 27	
				28.8 sq. yds. brick pavement relaid.....					12 50	
				65.0 sq. yds. Hassam granite paving relaid.....					215 47	
				1 new catch basin						
				5 catch basins repaired.....						
				5 sewer manholes repaired.....						
				9 L.E.L. manholes repaired.....					249 53	
				4 N. E.T. & T. manholes re- paired.....						
				Removing flagging.....					97 61	
				Rebuilding bulkhead.....					9 00	
				Engineering.....					71 75	
										\$ 1,786 60
					\$853 75	\$2,731 38	\$5,164 14	\$901 92	\$1,786 60	\$11,437 52

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Linear Feet	Square Yards	Cost per Sq. Yd.	Total Cost Exclusive of Regulation	Labor, Materials, etc.	Sub-Grade	Foundation	Paving	Grouting	Regulating	Totals
1,365	6,022.47	\$ 3 11—	\$ 18,727 10	Labor	\$ 1,093 28					
				Teaming	457 88					
				Use of roller	134 97					
				Use of tools	25 00					
				Engineering	68 95					\$ 1,780 08
				1,313.2 tons crushed stone		\$ 1,444 62				
				Hauling crushed stone		735 18				
				2,420 bags cement		879 67				
				9,681 bags sand		418 09				
				Water		36 30				
				Use of mixer		219 20				
				Use of roller		222 08				
				Labor		700 30				
				Use of tools		50 00				
				Royalty		580 97				
				Engineering		68 96				5,355 37
				5,899.75 sq. yds. paving blocks laid			\$ 7,246 35			
				Hauling paving blocks			465 25			
				35 loads cushion sand			611 44			
				Labor			1,176 68			
				Watchmen			296 00			
				Advertising			12 00			
				General teaming			17 00			
				Engineering			137 91			9,962 63
				1,869 bags cement				\$ 679 40		
				1,869 bags sand				80 94		
				63.49 tons crushed stone				69 84		
				Hauling crushed stone				30 50		
				Water				28 02		
				Use of mixer				215 10		
				Labor				494 72		
				Use of tools				25 00		
				General teaming				5 50		\$ 1,629 02
				Total						\$ 18,727 10
				768 0 ft. new edgestone					\$ 467 65	
				1,786.8 ft. edgestones reset					214 32	
				216.1 ft. new curved stone					213 60	
				Concrete walks					1,616 63	
				581 0 sq. yds. repaving					243 38	
				244.7 ft. flagging relaid					67 42	
				Removing trees					23 79	
				8 sewer manholes repaired					17 18	
				14 L. E. L. manholes repaired					17 49	
				6 N. E. T. & T. manholes rep'd					14 56	
				11 catch basins					226 51	
				1 new catch basin					45 54	
				2 new track basins					46 05	
				2 new track basins repaired					12 40	
				Engineering					137 92	\$ 3,364 44
					\$ 1,780 88	\$ 5,355 37	\$ 9,962 63	\$ 1,629 02	\$ 3,364 44	\$ 22,091 54

GRANITE BLOCK PAVEMENT ON HASSAM CONCRETE FOUNDATION.
MERRIMACK STREET—From B. & M. R. R. Tracks to West Line Tilden Street.

HIGHWAYS AND STREETS—TABLE SHOWING WORK DONE YEARLY SINCE 1900

SUPERINTENDENT OF STREETS.

111

DESCRIPTION	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910
Macadam	69,220	36,476	55,905	50,275	54,537	58,977	38,869	38,638	49,195	15,904	33,442
Streets graded	43,712	53,400	47,965	23,347	36,315	44,967	39,875	7,975	20,844	25,790	3,375
Curbing (new)	9,767	11,052	13,151	12,980	12,128	5,285	1,646	10,123	6,488	14,410	15,872
Curbing (relaid)	6,987	6,965	16,696	17,735	8,276	8,980	9,638	11,257	8,956	11,135	7,902
Gutter (new)	13,520	10,682	24,791	15,810	13,638	11,511	14,335	11,497	15,127	3,819	1,814
Gutter (relaid)	1,465	3,273	1,395	228	5,106	1,738	1,778	4,460	5,812	3,417	300
Cinder sidewalks	51,478	45,346	92,262	101,480	42,190	33,527	39,652	55,146	58,511	91,987	64,467
Paving	12,867	1,843	416	555	444	63	304		4,201	4,337	7,273
Crosswalks	509	540	2,215	2,199	1,328	1,207	1,166	955	1,221	274	75
Crosswalks (relaid)	702	2,098	2,193	2,583	1,451	246	1,232	1,830	1,840	777	258
Streets accepted	0.78	0.38	1.04	1.43	0.62	1.89	4.17	0.49	1.19	0.69	2.08
Relaying brick sidewalks	481	573	3,216	3,820	2,729	2,479	2,535	711	210	2,236	811
New walls	1,580	210	412	282	936	291	538	490	263	494	1,747
New catch basins	274	96	102	27	53	56	24	39	36	47	104
Top-dressing gravel streets							5,542				
Grading streets with cinders							2,205	7,698	7,114	5,506	1,405

HIGHWAYS AND STREETS—TABLE SHOWING WORK DONE YEARLY
SINCE 1900—CONTINUED

DESCRIPTION	REPORT OF THE										
	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910
Top-dressing macadam.....							10,713		8,009	7,362	9,595
Repairing cinder sidewalks.....							5,780				
Hassam pavement.....								3,408	6,423		
Granite pavement on Hassam concrete foundation.....								2,122	10,670	15,959	16,236
Paving relaid	3,905	5,500	6,827	6,600	8,423	10,992	574	1,780	3,432	3,738	1,648

TABLE SHOWING AMOUNTS SPENT ON PRINCIPAL WORK SINCE THE YEAR 1900.

SUPERINTENDENT OF STREETS.

113

Description	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910
Macadamizing	\$ 21,513 05	\$ 18,373 05	\$ 23,672 24	\$ 30,434 78	\$ 22,952 66	\$ 35,031 65	\$ 25,606 25	\$ 30,751 14	\$ 38,216 88	\$ 10,757 37	\$ 25,973 59
Streets graded	14,566 96	9,078 75	12,353 13	10,965 06	15,619 92	15,983 92	24,130 91	6,803 49	14,865 96	15,916 00	5,209 99
Curbing, (new)	4,203 13	8,088 01	8,335 25	7,327 83	7,397 69	2,850 06	1,017 45	5,257 82	4,568 32	8,482 16	9,555 86
Curbing, (relaid) ..	684 94	645 17	2,412 73	2,482 92	1,116 32	1,092 76	1,507 32	1,434 36	1,232 05	1,755 65	1,218 71
Gutters, (new)	1,795 91	927 78	2,627 33	1,593 78	1,736 87	1,568 64	2,028 67	1,830 23	2,440 27	1,644 05	500 87
Cinder sidewalks..	2,936 33	3,015 86	5,396 11	8,613 30	2,979 66	2,551 05	2,793 34	4,643 84	3,684 33	6,777 96	5,177 10
Gutters, (relaid) ..	210 12	187 11	207 61	12 50	509 85	113 09	265 56	567 52	1,033 73	710 28	34 16
Paving, (new)	6,948 67	4,474 39	426 00	373 26	921 12	198 70	361 25	.....	7,119 68	6,866 05	9,945 47
Paving, (relaid)...	753 18	1,510 23	2,062 28	2,752 34	3,006 47	3,705 54	334 30	1,171 62	1,629 54	3,517 75	836 36
Crosswalks, (new).	1,053 39	445 80	2,051 26	2,060 26	1,203 89	1,289 96	1,048 91	811 78	1,166 20	273 58	107 32
Crosswalks (relaid)	353 08	405 26	744 11	770 29	364 44	53 49	386 79	643 39	559 89	158 51	156 68
Crosswalks (rep'd.)	286 10	208 91	117 31	216 36	314 12	74 96	66 30	88 92	77 49	133 85	20 69
Cleaning streets...	21,164 75	28,473 75	31,379 73	38,256 59	38,867 31	40,181 75	39,265 88	32,922 03	41,173 10	41,581 59	47,511 12
Removing snow....	4,890 22	8,436 77	17,836 03	9,186 63	44,878 86	33,354 07	13,870 91	20,907 69	4,686 42	11,992 94	19,693 81
Trimming trees...	1,273 28	646 55	558 20	108 55	.....	.....	.....	.....	.....	.....	.....
Repairing streets.	2,829 46	1,827 97	1,026 01	993 07	2,875 92	3,673 06	2,805 85	5,580 84	2,789 39	886 61	1,892 36
Total expenditures	171,365 20	134,239 89	275,616 02	226,984 66	216,482 71	214,065 48	239,457 17	205,906 82	270,762 19	236,627 61	297,207 95

TABLE OF PERMITS ISSUED IN 1910

SUPERINTENDENT OF STREETS.

115

DESCRIPTION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Lowell Gas Light Corp.— To run supply pipe			10	38	27	29	28	19	28	27	58	9	273
To repair pipe		3	2	2		2		3	2		4	5	25
To connect lamp posts.....			3						1		22		26
To main extension				5	11	3	5	4	3	1	9		41
Building purposes.....	5	7	16	11	10	9	7	11	7	7	6	5	101
Water Works Dept. (Street openings).....	14	10	18	53	60	56	46	72	61	55	48	25	518
Lowell Electric Light Corp.— For pole locations.....	1			3	2	4	4	4	2	10	1	1	32
For conduits.....			1			1	3	2	1				8
New England Tel. & Tel. Co.— For pole locations	3	1	1	4	3		1		7	3		1	24
For conduits		3	1		3	1	4	5	2		2		21
Street obstruction.....		1	1		3	3	3				3	2	16
Sewer connections.....	4		24	18	33	23	20	25	22	16	23	6	214
Sewer repairs		4	4	5	4	5	6	4	1	6	4	3	46
	27	29	81	139	158	136	127	149	137	125	180	57	1,345

CATCH BASINS BUILT

Streets	Location	Cost	
		Rebuilt	New
Andover	South side, 13.5 ft. east of east line Clark Road	\$	\$49 81
Anne	West side, 11.0 ft. south of south line French St		54 96
Anne	West side, 200 ft. south of south line French St		58 16
Anne	West side, 398 ft. south of south line French St		61 44
Anne	East side, 197 ft. south of south line French St		45 30
Apple	East side, 6 ft. north of north line Railroad St		74 10
Apple	West side, 6 ft. north of north line Railroad St		79 27
a Boston Rd	East side, 58 ft. north of north line New Way		
a Boston Rd	West side, 58 ft. north of north line New Way		
Bowden	North side, 4.5 ft. west of west line Stromquist Ave		46 19
Bowden	North side, 20 ft. east of west line Chippewa St		48 69
Bowden	South side, 5 ft. west of west line Chippewa St		50 38
Bowden	South side, 7 ft. west of west line Nelson Ave		60 94
Branch	South side, 7 ft. west of west line Nichols St		45 54
b Bridge	West side, opposite Amory St	23 93	
b Broadway	13.5 ft. west of east line Suffolk St	33 64	
Brooks	North side, 7 ft. west of west line Fletcher St		61 75
Brooks	South side, 5.5 ft. west of west line Fletcher St		61 52
b Butler Ave	North side, 171.5 ft. east of east line Gorham St	64 58	
Clark Rd	East side, 552 ft. south of south line Andover St		60 80

CATCH BASINS BUILT—Continued

SUPERINTENDENT OF STREETS.

117

Streets	Location	Cost	
		Rebuilt	New
Clark Rd.....	New	\$	\$63 69
Clark Rd.. . . .	New		59 30
Clark Rd.. . . .	New		65 56
Congress.. . . .	New		44 61
Congress.. . . .	New		42 09
Congress.. . . .	New		43 26
Congress.. . . .	New		42 12
Corbett	New		56 80
Corbett	New		55 76
E. Merr'k.....	New Tr		29 82
E. Merr'k.. . . .	New Tr		27 61
Ennell.....	New		58 64
Ennell.....	New		59 11
Ennell	New		57 29
Ennell... . . .	New		60 18
Ennell.....	New		60 17
French	New		34 27
Gershom Ave..	New		53 90
Gershom Ave..	New		43 65
b Gorham.....	Rebuilt Tr..	23 38	

CATCH BASINS BUILT—Continued

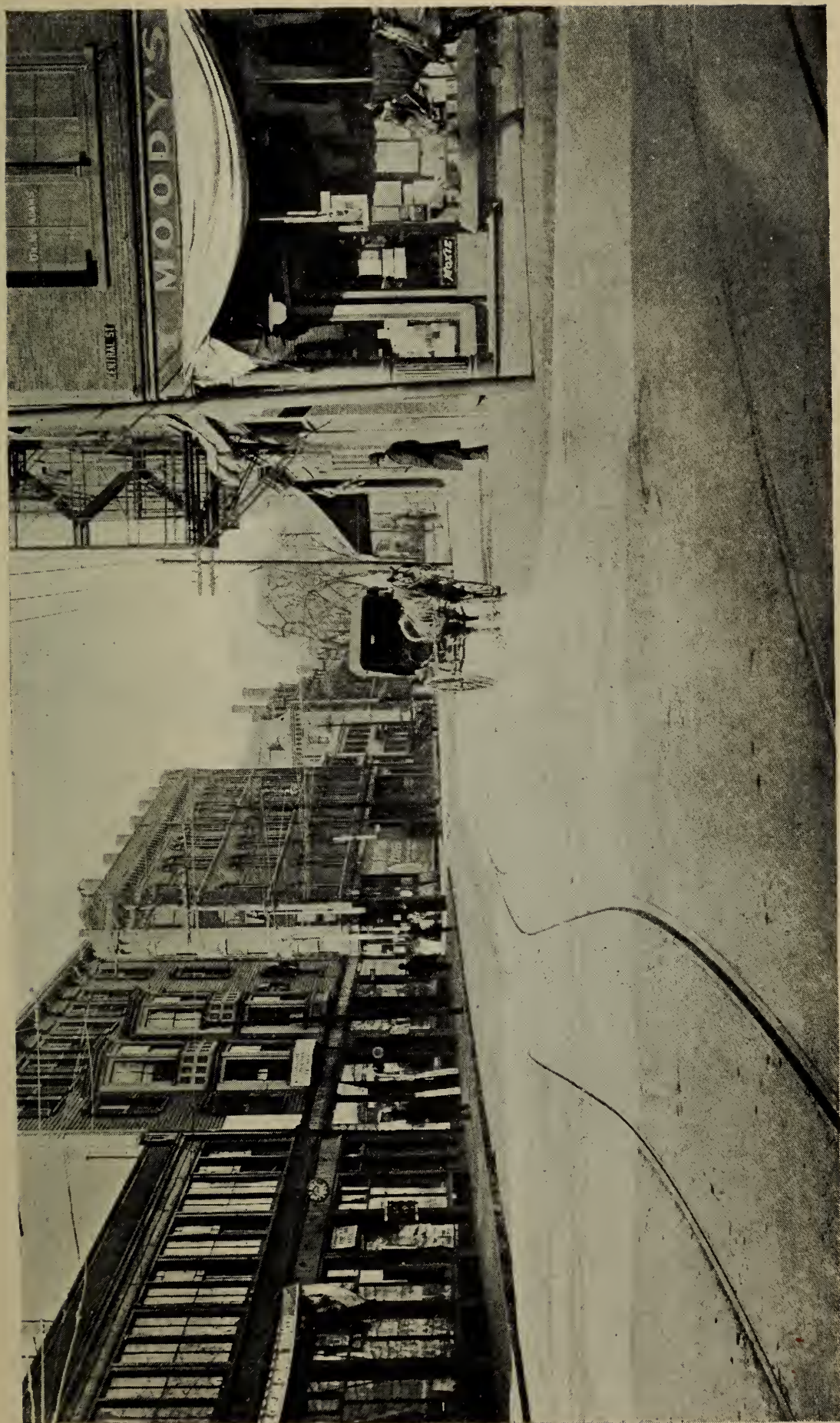
Streets	Location	Cost	
		Rebuilt	New
b Gorham.....	Rebuilt Tr..	\$23 34	\$
b Gorham.....	Rebuilt Tr..	37 28	
b Gorham.....	Rebuilt Tr..	39 16	
b Gorham.....	Rebuilt Tr..	23 79	
b Gorham.....	Rebuilt Tr..	26 41	
b Gorham.....	Rebuilt Tr..	19 75	
b Kirk	Rebuilt.....	59 48	34 41
Lakeview Ave.	New Tr.....		39 45
Lakeview Ave.	New Tr.....		
bLakeview Av.	Rebuilt Tr..	9 85	
bLakeview Av.	Rebuilt Tr..	15 80	
Lawrence.....	New		48 63
a Lincoln.....	New		
a Lincoln.....	New		
a Lincoln.....	New		
a Lincoln.....	New		
Liberty.....	New Tr.....		37 08
a London.....	New		
a Main.....	New		
a Main.....	New		

CATCH BASINS BUILT—Continued

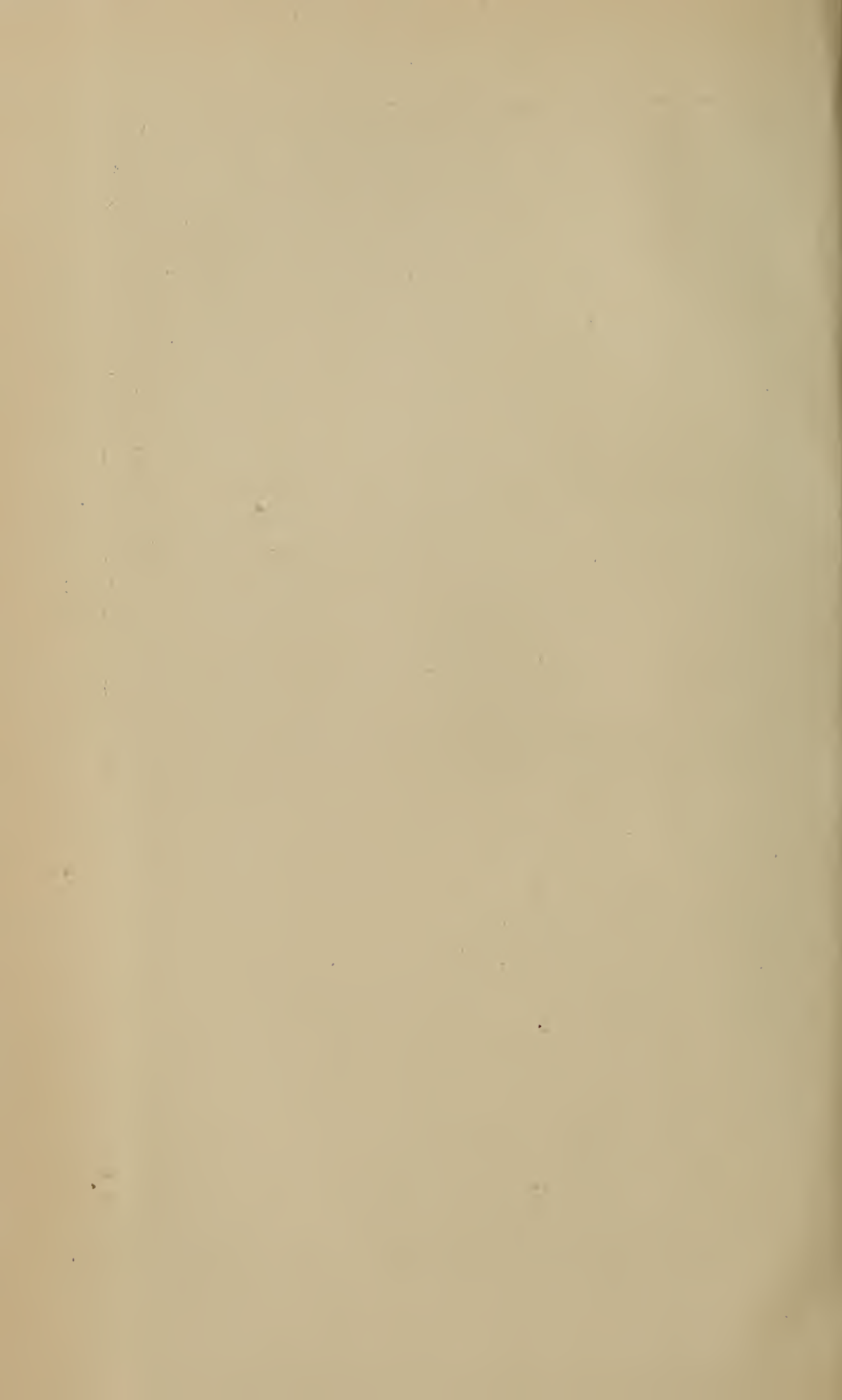
Streets	Location	Cost	
		Rebuilt	New
Mammoth Rd.	New		\$54 31
Marginal.....	New		71 78
Merrimack	New		62 10
Merrimack	New Tr....		29 80
Merrimack	New Tr....		24 65
Merrimack	New		59 81
Merrimack	New		69 17
Merrimack	New		64 30
Middle.....	New		54 40
Middlesex	New		58 90
Middlesex	New Tr....		24 16
Middlesex	New Tr....		25 59
Middlesex	New		54 40
Middlesex	New		49 86
Middlesex	New		24 81
Middlesex	New Tr....		20 16
Middlesex	New Tr....		22 28
Middlesex	New Tr....		24 78
Perry.....	New		44 20
Pine.....	New		64 90

CATCH BASINS BUILT—Continued

Streets	Location	Cost	
		Rebuilt	New
a Plain.....	North side, 35 ft. west of west line Main St.....	\$	\$
a Plain.....	South side, 34 ft. west of west line Main St.....		54 36
Post Office Ave	North side, 7 ft. west of west line Gorham St.....		44 03
Prescott	West side, 76 ft. south of south line Merrimack Sq.....		48 00
Prescott.....	East side, 205 ft. south of south line Merrimack Sq.....		19 36
Prescott	Center 203 ft. south of south line Merrimack Sq.....		22 90
Prescott	Center 53 ft. northeast of east line Central St		75 81
School	East side, 62.5 ft. north of south line Northern Canal..		33 67
School	Center 62.5 ft. north of south line Northern Canal ..		69 93
School	West side, 62.5 ft. north of south line Northern Canal..		59 13
Smith.....	West side, 9 3 ft. north of north line Liberty St.....		69 99
Smith.....	West side, 12 5 ft. north of north line Horn St.....		63 23
Thayer.	South side, 9 ft. east of east line Barclay St.....		
b Third.....	Center 28.9 ft east of east line Bridge St.....	23 93	
Thorndike.....	East side, 2 ft. north of north line Davis Sq		34 29
Varnum Ave..	South side, 13 5 ft. south of south line Mammoth Rd..		47 68
Victor	South side, at east line Beaulieu St.....		62 90
Victoria.	North side, 213 ft. west of west line Chelmsford St.....		59 85
a Walker.....	East side, 78 ft. north of north line Columbus Ave....		
a Walker.....	West side, 74.5 ft. north of north line Columbus Ave..		



APRIL 7, 1911, 9.30 A. M. APPLETON STREET. NEW PAVEMENT. LOOKING WEST FROM CENTRAL STREET.



SUPERINTENDENT OF STREETS.

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Streets	Location	Cost	
		Rebuilt	New
a Walker.....	New		
a Walker	New		
a Walker	New		
Warren.....	New		\$83 30
a Waugh.....	New		
a Waugh.....	New		
a West Adams	New		
a West Adams	New		
a W. Avenue..	New		
a W. Manches- ter.....	New		
West Sixth....	New		48 16
White.....	New		42 93
White.	New		44 18
White.....	New		43 63
White.....	New		45 88
White.....	New		44 61
White.....	New		44 00
Wright.	New		61 58
	East side, 79 ft. north of north line Waugh St		
	West side, 79 ft. north of north line Waugh St... ..		
	West side, at north line west Adams St		
	East side, 152 ft. north of north line Church St.....		
	North side, 68 ft. west of west line Walker St.....		
	South side, 68 ft. west of west line Walker St.....		
	North side, 197 ft. west of west line Walker St.....		
	South side, 197 ft. west of west line Walker St		
	South side, 212.4 ft. west of east end Freight House....		
	North side, 76 ft. east of east line Main St.....		
	South side, 6.5 ft. west of west line Beaulieu St.....		
	East side, 4.5 ft south of south line Bodwell Ave.....		
	East side, 4.5 ft. north of north line Bodwell Ave		
	West side, 4.5 ft. north of north line Bodwell Ave		
	West side, at south line Endicott St.....		
	East side, 91.5 ft. south of south line Endicott St.		
	West side, at south line Dracut St.....		
	16 ft. south of south line and 24 ft. east of east line West Fifth Ave. (in field).....		
		\$424 32	\$4,104 01

a Built by B. & M. R. R., changing grade crossings.

b Rebuilt.

SEWER MAINTENANCE.

SUMMARY.

DESCRIPTION	EXPENDED
Salaries	\$ 3,560 86
Yard Labor	3,398 62
Bills	4,268 35
Labor :	
Culverts	\$ 76 86
Cleaning basins	4,160 38
Cleaning manholes	36 85
Cleaning sewers.....	187 29
Cleaning connections	198 67
Flushing sewers	246 78
Inspecting sewers	37 15
Opening basins	933 20
Repairing sewers	515 15
Repairing connections.....	205 66
Repairing basins....	613 30
Repairing manholes	558 84
Sundry work.....	403 72
Work done for other departments.	468 50
	<hr/> 8,642 35
	<hr/> \$19,870 18

CLEANING CONNECTIONS

STREETS	COST
Aiken.....	\$ 6 99
Auburn	8 59
Adams.....	17 28
Barclay	5 35
Bridge.....	8 05
Broadway.....	4 31
Beaulieu	7 51
Church	2 15
Cross.....	5 36
Central	4 31
Durant.....	3 76
Ennell.....	1 08
Exeter.....	1 61
East Merrimack	8 58
First ..	1 07
Fifth Ave.....	3 76
Fletcher	1 76
Gorham.....	4 30
Hall ...	1 52
London	2 08
Lakeview Ave	1 07
Middlesex.....	16 63
Moody ...	6 68
Middle.....	1 60
Ninth.....	1 07

CLEANING CONNECTIONS—Continued.

STREETS	COST
Noble's Court.	15 18
Railroad	2 69
Stackpole	1 09
Seventh Ave	4 29
Third.....	7 00
Third Ave.....	28 52
William.....	8 60
Ward.....	4 83
	<hr/>
	198 67

CLEANING SEWERS

STREETS	COST
Burgess.....	\$ 20 94
Clinton Ave.....	2 14
Ford.....	1 08
Humphrey.....	9 66
Howard.....	13 52
Marginal.....	55 56
Moore	2 15
Middlesex	4 29
Manufacturers	4 29
Oakland.....	12 40
Perry.....	48 35
Pleasant	2 15
State.....	8 60
Sidney.....	2 16
	<hr/>
	187 29

REPAIRING MANHOLES

STREETS	COST
Adams.....	\$ 33 70
Andover.....	20 14
Appleton.....	79 74
Broadway.....	38 28
Billings.....	3 39
B.....	10 53
Butler Ave.....	5 10
Bridge.....	1 71
Chapel.....	8 12
Common.....	12 84
Clark.....	1 58
Chelmsford.....	2 15
D.....	14 27
Ennell.....	2 69
East Merrimack.....	4 74
French.....	27 10
Gorham.....	69 44
Howard.....	51 82
Hildreth.....	5 38
Lilley Ave.....	10 97
Lawrence.....	15 65
Middlesex.....	152 30
Marshall.....	1 09
Noble's Court.....	62 64
Plain.....	3 76

REPAIRING MANHOLES—Continued.

STREETS	COST
Pawtucket.....	2 41
Rogers....	3 22
Smith....	6 78
Stevens.....	7 90
Western Ave.....	11 74
Warren.....	4 91
Walker.....	5 44
Westford.....	14 09
West Sixth	3 22
	<hr/>
	558 84

REPAIRING CATCH BASINS

STREETS	COST
A	3 76
Adams	44 40
Anne	40 82
Appleton	41 42
Branch	24 26
Brooks	2 29
Barclay	3 59
Butler Ave.	37 59
Central	50 61
Clark	7 88
Crosby	6 65
Common	1 08
Crowley	5 83
Dutton	103 10
French	38 51
First	1 09
Fairmount	3 23
Gorham	23 03
Gates	1 38
Howe	36 45
Hildreth	21 19
High	3 23
Jewett	5 37
Liberty	9 18
Linden	6 15

REPAIRING CATCH BASINS Continued.

STREETS	COST
Ludlam.....	2 15
Merrimack.....	348 52
Methuen.....	52 37
Middlesex.....	339 45
Mammoth Road.....	13 50
Perry.....	108 18
Prescott.....	130 69
Smith.....	25 15
Shaw.....	2 98
Sheldon.....	2 60
Salem.....	1 09
Sydney.....	3 22
School.....	20 58
Thorndike.....	2 15
Thayer.....	2 68
Wentworth Ave.....	1 08
Worthen.....	10 04
Western Ave.....	24 78
	<hr/>
	1,613 30

REPAIRING SEWERS.

STREETS	COST
Auburn	\$ 27 00
Bartlett	7 53
Ford	14 17
Moore	4 28
Noble's Court...	146 22
St. James	315 95
	\$515 15

CLEANING SETTLING BASINS.

SEWERS	COST
Oaklands ..	\$239 34
Walker (Marginal)	139 78
South Lowell, (Filter Bed)	72 52
	\$451 14

REPAIRING CONNECTIONS.

STREETS	COST
A.....	\$ 8 83
Bridge	1 08
Clark	50 32
Common	9 69
Chelmsford	2 69
Dutton.....	5 38
Gorham.....	3 76
Middlesex	11 00
Moody.....	24 56
Rock	20 77
Smith	8 86
Sewer Yard.....	13 96
Thorndike	7 53
Wedge.....	29 80
White	4 05
West Sixth.....	5 38
	\$205 66

FLUSHING SEWERS.

STREETS	COST
Adams.....	\$ 14 51
Bartlett.....	2 16
Clark	2 15
City Ave.....	79
Endicott.....	2 15
Eighth Ave.....	1 48
Floyd.....	2 15
Gershom Ave	1 08
Gorham.....	11 60
Howard.....	2 69
Humphrey.....	1 07
John St. Ave.....	3 47
Kirk Ave	9 68
Lincoln	9 57
Lyons	12 20
Lakeview Ave.....	5 37
London	3 22

FLUSHING SEWERS—Continued.

STREETS	COST
Lamb.....	\$ 2 45
Middlesex	9 13
Mt. Grove.....	2 28
Mammoth Road	3 98
Marshall.....	1 08
Middlesex Park.....	4 30
Noble's Court.....	50 63
North	3 23
Nichols	1 27
Railroad ...	9 67
Royal	1 62
Sutherland.....	4 84
Third Ave .	9 42
Tucker	4 30
Tyler.....	2 15
Upham	4 31
West Third.....	7 51

FLUSHING SEWERS—Continued.

STREETS	COST
West Fourth.....	\$ 2 16
Ward	14 34
West Fifth Ave	6 43
White	16 34
	\$246 78

CLEANING CATCH BASINS—1910.

Streets	Loads Removed	Total Cost
A	8	\$ 9 70
Abbott...	10	11 72
Adams	10	12 79
Agawam	11	13 97
Aiken Ave.....	36	47 81
Aiken	20	22 42
Alder	7	8 61
Andover.....	54	74 90
Andrews	13	15 04
Anne.....	4	5 37
Appleton	21	30 40
Arch	19	25 55
Auburn	6	6 45
B	17	22 54
Barclay	10	12 90
Barker	2	4 29
Bartlett	7	9 59
Bassett.	2	3 12

CLEANING CATCH BASINS—Continued.

Streets	Loads Removed	Total Cost
Bachelder Ct	4	\$ 5 38
Beacon	12	16 67
Beech	8	10 73
Bellevue	7	9 35
Belmont	2	2 69
Belmont Ave	2	2 15
Billings	11	13 68
Bleachery	11	12 87
Blossom	10	10 75
Bowers	2	3 23
Boynton	3	3 76
Branch	24	31 17
Brewer's Ct	2	2 15
Brewery Lane	2	2 15
Bridge	69	84 99
Broadway	77	112 07
Brookside	2	2 69
Burns	4	4 30



APRIL 8, 1911, 9.17 A. M. NEW PAVEMENT, CENTRAL STREET. LOOKING SOUTH FROM TOWER'S CORNER.

CLEANING CATCH BASINS—Continued.

Streets	Loads Removed	Total Cost
Burnside	4	\$ 3 07
Butler Ave	4	5 40
Butterfield	6	8 68
Bye	2	2 42
C	12	13 44
Ca'bot	18	22 71
Cady	8	10 51
Cambridge	7	8 23
Canton	5	6 46
Carlisle	2	2 15
Carlton	2	2 68
Carter	19	21 51
Cedar	17	20 42
Central	113	139 82
Chambers	18	23 45
Chapel	39	48 36
Charles	15	21 49
Chase	7	8 60

CLEANING CATCH BASINS—Continued.

Streets	Loads Removed	Total Cost
Cheever.....	8	\$ 11 11
Chelmsford.....	61	75 98
Chestnut.....	8	10 22
Chester.....	2	1 60
Church.....	10	12 61
City Ave.....	7	8 62
City Hall Ave.....	1	1 08
City Yard.....	2	3 23
Clare.....	9	11 82
Clarke.....	11	14 50
Clitheroe.....	3	4 29
Coburn.....	19	27 10
Colonial Ave.....	7	9 14
Columbus Ave.....	3	5 38
Common.....	24	29 00
Concord.....	35	44 41
Congress.....	10	10 74
Coral.....	8	9 12

CLEANING CATCH BASINS—Continued

Streets	Loads Removed	Total Cost
Cosgrove	10	\$ 13 98
Court	4	4 30
Crawford	4	4 29
Crosby	26	33 26
Cross	9	12 90
Cushing	11	15 79
D	17	20 41
Daly	8	9 13
Dalton	12	16 53
Dane	2	3 23
Davidson	3	3 76
Decatur Ave	5	6 45
Dodge	2	2 69
Dover	6	7 53
Dummer	7	7 64
Durant	6	8 07
Dutton	18	24 12
East Merrimack	32	46 25

CLEANING CATCH BASINS—Continued

Streets	Loads Removed	Total Cost
East Pine.....	11	\$ 13 82
Eaton.....	6	6 45
Eighth Ave.....	2	1 53
Eight.....	4	5 11
Eighteenth.....	5	5 91
Eleventh.....	9	11 82
Elliott.....	4	5 38
Ellsworth.....	4	4 30
Elm.....	9	12 89
Emery.....	2	2 68
Ennell.....	28	36 26
Essex.....	4	4 31
Eustis Ave.....	5	6 98
Exeter.....	5	6 72
Fairmount.....	14	16 11
Fairview.....	4	4 29
Farnham.....	3	4 84
Fay.....	8	10 74

CLEANING CATCH BASINS—Continued.

Streets	Loads Removed	Total Cost
Fayette.....	27	\$ 40 17
Fenwick.....	4	5 38
Fernald.....	1	1 61
Fifth.....	2	2 69
Fifth Ave.....	4	4 57
First.....	23	31 17
Fisher.....	4	5 37
Fletcher.....	28	35 45
Floyd.....	7	9 69
Ford.....	5	6 45
Fort Hill Ave.....	9	11 82
Foster.....	7	9 14
Fourth.....	6	7 53
Franklin.....	6	8 04
Fremont.....	10	13 96
French.....	4	5 30
Fulton.....	1	1 61
Garnet.....	7	9 87

CLEANING CATCH BASINS—Continued.

Streets	Loads Removed	Total Cost
Gates.....,.....	6	\$ 8 06
George.....	8	8 60
Gershom Ave.....	15	18 80
Glidden Ave.....	3	4 29
Gorham.....	145	179 63
Grace.....	8	10 23
Grand.....	16	21 49
Grove.....	21	46 18
Hale.....	42	52 41
Hall.....	14	17 92
Hampshire.....	3	4 29
Hancock Ave.....	3	3 76
Hanks.....	4	5 38
Hanover.....	1	1 61
Harvard.....	2	1 53
Hastings.....	8	10 74
High.....	35	43 40
Highland.....	6	6 45

CLEANING CATCH BASINS—Continued

Streets	Loads Removed	Total Cost
Hildreth	2	\$ 2 41
Hovey.....	2	2 60
Howard	2	2 16
Howe.....	2	2 69
Hudson.....	8	10 44
Humphrey	12	16 65
Huntington	3	4 29
Hutchinson	6	6 50
Jackson	16	19 29
Jefferson ...	2	2 15
Jenness.....	1	2 15
Jewett.....	6	7 52
John.....	8	10 20
June.....	2	2 69
Keene.....	9	9 67
Kinsman	10	11 82
Kirk	12	16 93
Knapp Ave	2	2 15

CLEANING CATCH BASINS—Continued

Streets	Loads Removed	Total Cost
Lagrange.....	4	\$ 5 03
Lakeview Ave.....	55	73 21
Lamb.....	2	2 69
Lane.....	4	5 38
Laurel.....	6	6 45
Lawrence.....	42	52 65
Lee.....	1	1 62
Leroy.....	2	2 69
Leverett.....	3	3 22
Lewis.....	1	1 08
Liberty.....	38	45 57
Lilley Ave.....	14	17 19
Lincoln Square.....	5	7 95
Lincoln.....	48	52 70
Linden.....	12	15 06
Livingston.....	8	9 14
Livingston Ave.....	6	6 45
Locke.....	4	5 37

CLEANING CATCH BASINS—Continued

Streets	Loads Removed	Total Cost
London	9	\$ 10 74
Loring	4	4 85
Ludlam	27	54 30
Lundberg	2	2 15
Lyons	11	12 90
Madison	2	2 15
Main	9	10 74
Mammoth Road	15	19 87
Mansur	12	15 02
Marginal	2	2 70
Marion	5	5 38
Market	20	22 10
Marshall	18	23 10
Meadowcroft	7	8 59
Merrill	6	6 27
Merrimack	77	110 41
Methuen	22	28 21
Middle	9	12 44

CLEANING CATCH BASINS—Continued

Streets	Loads Removed	Total Cost
Middlesex.....	154	\$ 210 25
Mill.....	4	5 38
Moody	77	98 42
Moore	42	52 65
Mt. Hope.....	6	7 54
Mt. Vernon	16	20 96
Myrtle.....	14	18 29
Nesmith.....	9	11 85
Newhall.....	6	7 54
Nichols	12	15 06
Nineteenth	3	3 47
Ninth	6	8 20
Noble's Court	9	13 82
Norcross.....	4	6 44
North.....	10	12 26
Oak	7	9 14
Oliver	5	7 53
Osgood.....	6	7 54

CLEANING CATCH BASINS—Continued

Streets	Loads Removed	Total Cost
Otis	16	\$ 18 27
Paige	9	12 90
Parker.....	5	6 99
Parkview Ave.....	6	7 53
Pawtucket	15	19 34
Pearl	2	2 16
Perkins.....	5	5 37
Perry.....	29	38 65
Phillips	1	1 95
Pine	15	18 27
Pine Hill.....	2	2 16
Plain.....	3	4 04
Pleasant	14	16 21
Pollard Ave	4	6 46
Pond	6	7 24
Porter	6	7 52
Powell	22	27 41
Prescott	7	15 94

CLEANING CATCH BASINS—Continued.

Streets	Loads Removed	Total Cost
Princeton.....	5	\$ 6 44
Prospect.....	2	1 53
Puffer	2	2 15
Queen	4	4 31
Race	8	9 67
Railroad.....	15	19 90
Read.....	15	20 40
Riverside	6	7 53
Robbins.....	4	5 38
Roberts.....	2	2 16
Robeson	6	6 44
Rock.....	33	46 95
Rogers.....	52	59 01
Ross Ave.....	2	3 22
Royal	3	4 29
Salem	12	14 49
Sanborn.....	2	2 69
Sayles	2	3 23

CLEANING CATCH BASINS—Continued.

Streets	Loads Removed	Total Cost
School.....	71	\$ 92.11
Second.....	6	10 21
Seventh.....	12	15 04
Shaffer.....	2	2 15
Shaw.....	19	22 04
Sherman.....	10	12 36
Sheldon.....	5	6 45
Simpson.....	4	4 84
Sixth Ave.....	6	6 74
Sixth.....	33	44 84
Smith.....	27	35 48
South.....	34	44 04
So. Highland.....	7	8 60
So. Loring.....	2	2 68
So. Walker.....	4	7 53
So. Whipple.....	9	9 67
Stackpole.....	16	21 51
Stanley.....	8	10 84

CLEANING CATCH BASINS—Continued

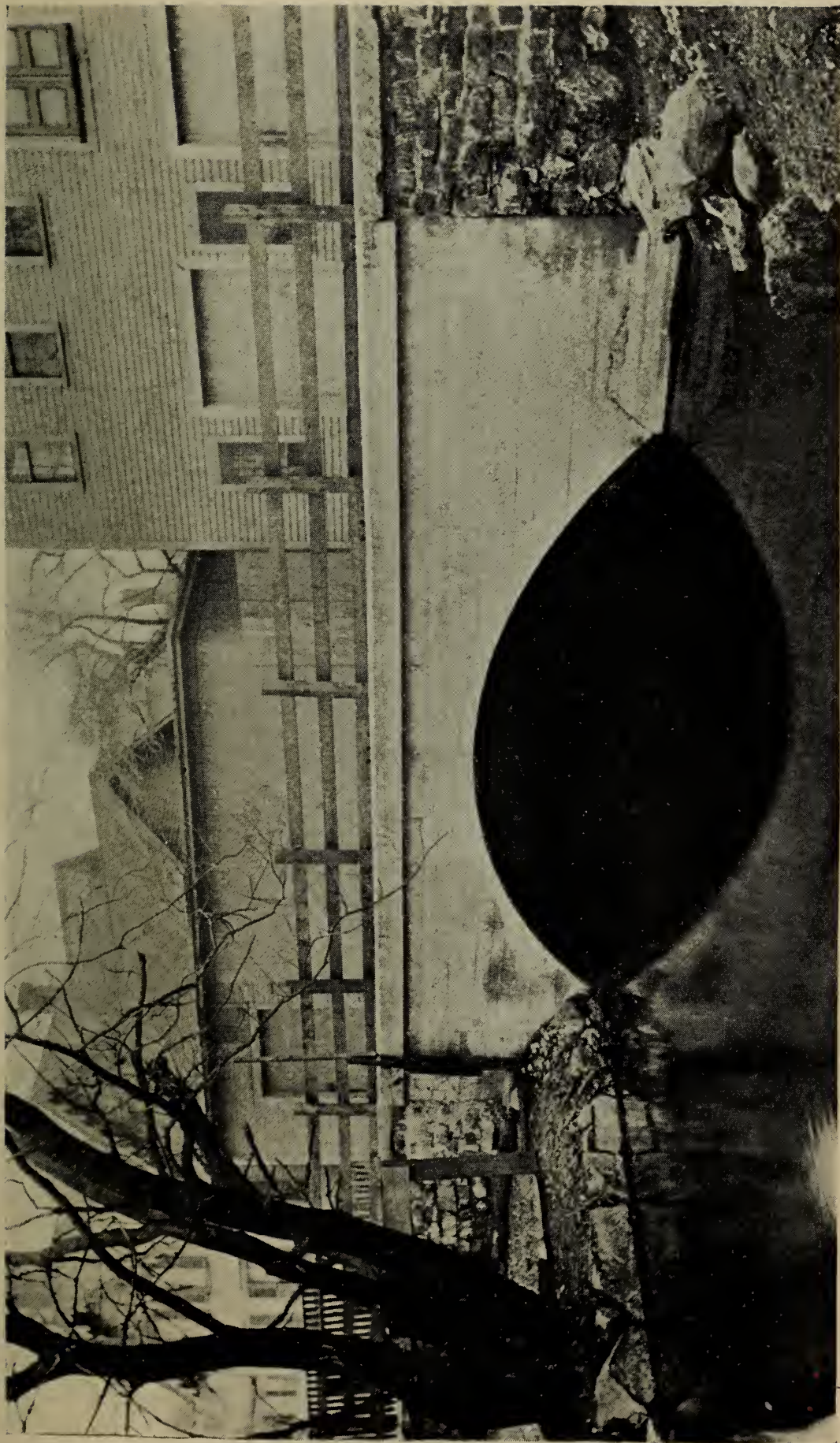
Streets	Loads Removed	Total Cost
Starbird	5	\$ 6 98
Stevens	22	30 04
Spaulding	2	2 16
Suffolk	12	20 41
Summer	31	43 03
Sutherland	6	7 80
Swift	8	8 60
Sydney	2	2 15
Talbot	5	5 38
Tanner	9	10 75
Tenth	20	25 97
Thayer	2	2 15
Third	49	64 72
Third Ave.	7	7 53
Thorndike	119	148 56
Tilden	5	7 75
Tremont	6	8 59
Tucker	3	3 94

CLEANING CATCH BASINS—Continued

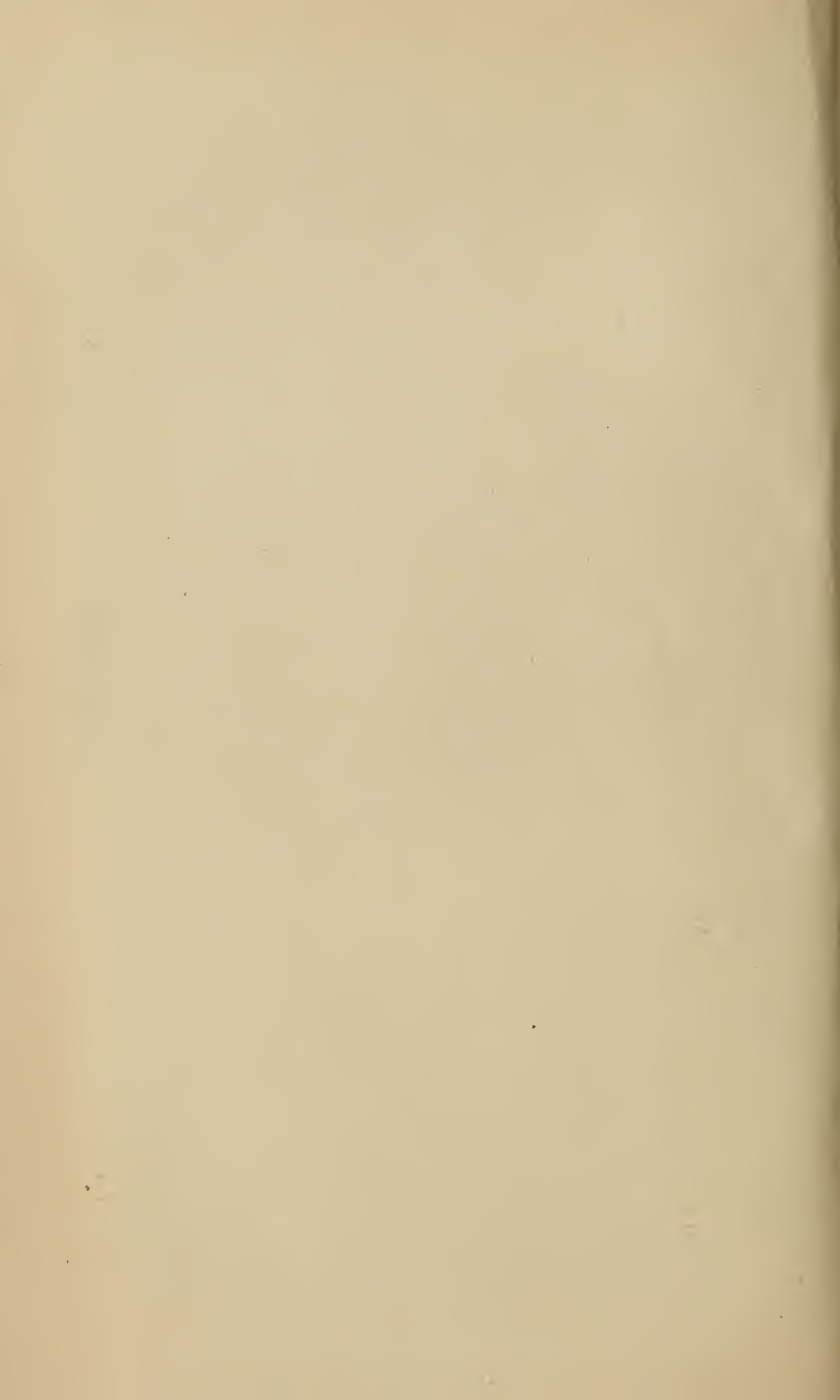
Streets	Loads Removed	Total Cost
Twelfth.....	6	\$ 8 76
Tyler Park	2	3 22
Tyler	5	5 38
Union	7	13 98
Varnum.....	7	9 13
Varnum Ave	2	3 02
Varney	5	5 37
Wachusett	1	1 27
Walker	50	64 99
Walnut	9	9 67
Wamesit	17	20 42
Wannalancit.....	4	11 83
Ward	12	18 55
Ware	6	12 37
Warren.....	6	7 52
Warwick.....	8	10 68
Washington.....	4	6 44
Watson	3	4 30

CLEANING CATCH BASINS—Continued

Streets	Loads Removed	Total Cost
Webster	3	\$ 4 31
Wentworth Ave	17	19 88
Western Ave	3	3 76
Westford	87	118 73
West Adams	2	2 69
West Forrest	3	4 29
West Fourth	4	5 38
West Sixth	8	9 14
West Third	10	13 43
Whipple	17	20 40
White	17	21 50
Whitney Ave	5	6 98
Wilder	33	41 82
William	8	9 68
Willard	2	2 69
Willie Ave	5	6 58
Willie	6	9 68
Willow	5	6 45



MARCH 30, 1911. 3.20 P. M. NEW REINFORCED CONCRETE BRIDGE OVER HALE'S BROOK AT CONGRESS ST. LOOKING EAST.
FENCE UNFINISHED



CLEANING CATCH BASINS—Continued

Streets	Loads Removed	Total Cost
Winter	3	3 22
Winthrop Ave	2	2 15
Woodward Ave	5	6 45
Worthen	9	12 90
Wyman	12	15 56
	4,196	\$5,462 79

REPORT OF THE
EDGESTONES RESET

Streets	Location	Lin. Ft.	Cost
Ash.....	At No. 14.....	4.0	\$ 60
Anne.....	East side, between Merrimack and French Sts.....	498.7	79 68
Andrews	East side, from Moore St., north'ly.	136.5	15 56
Appleton.....	Between Central and Gorham Sts..	244.9	46 24
Burgess	Both sides, between Grace and Hastings St.....	40.0	5 13
Bridge	At Canal Bridge.....	30.7	3 90
Common Ave..	Opposite North Common.....	115.0	12 62
Central	From north side Green St. to south side Appleton St.....	96.2	18 16
Chestnut	South side, at Fayette St.....	44.5	4 25
Davidson		40.0	5 31
Dutton	West side, between Music Hall Ave. and Market St.....	112.0	8 00
Dover.....	In front No. 32.....	28.0	4 06
E. Merr'k....	At Garage	18.5	3 34
French.....	Between Anne and Kirk Sts.....	208.1	31 20
Gorham.....	Between Middlesex St. and point so. of Appleton St.....	168.0	31 69
Hastings.....	East side, frem Burgess St.; north.	90.0	16 26
High.....	West side, between Andover St. and Pond St.....	11.4	1 81
Howe	From E. Merrimack St. southerly..	103.8	14 81
Kirk	Both sides, between French and Paige Sts.....	238.7	23 63

EDGESTONES RESET—Continued

Streets	Location	Lin. Ft.	Cost
Liberty.....	North side, from Smith St., east'ly.	10.6	\$ 1 90
Market.....	At Maiden Lane.....	43.8	11 25
Merrimack....	Between R. R tracks at Dutton St. and west side Tilden St.....	600.0	76 43
Methuen	South side, from Beacon St , east..	217.0	23 72
Middlesex	From B. & M. R. R. to east side How- ard St.....	233.1	41 74
Mdlx.&Branch	From east side Howard St. to west side Nichols St.....	1,786.8	214 32
Moody	At No. 765	45.3	5 63
Moore.....	North side, at Andrews St.....	5.0	78
Perry.....	Southerly of Pond St.....	226.9	36 48
Prescott.....	From south side Merrimack St. to east side Central St.....	233.7	33 07
Read.....		30.0	3 85
School	From Pawtucket Bridge, south'ly..	358.1	97 00
Sidney.....	From Moore St., southerly	1,183.7	130 50
Smith.....	East side, between Westford and Liberty Sts	868.1	169 75
State.....	West side	150.0	15 75
Third.....	At Wilson's Block.....	25.0	2 25
W. Sixth.....	In front Fire Engine House.....	111.0	16 79
Winter.....	At No. 505	65.0	11 25
		8,022.1	\$1218 71

BRIDGES

Streets	Location	Material	Maintained by
Aiken.....	Merrimack River....	Iron	City
Aiken.....	Northern Canal	Iron	City
Boylston	Western Div. B. & M. R. R.....	Wood	B. & M. R. R.
Bridge.....	Merrimack River....	Iron	City
Bridge.....	Eastern Canal	Wood	Props. Locks & Canals
Broadway	Pawtucket Canal....	Wood	Props. Locks & Canals
Broadway	Western Canal.....	Stone	City
Cabot.....	Northern Canal	Wood	City
Cambridge.	River Meadow Brook	Wood	City
Central	Pawtucket Canal....	Wood	Props. Locks & Canals
Chelmsford	B. & M. R. R.....	Iron	B. & M. R. R.
Church	Concord River.....	Stone	City
Congress.....	River Meadow Brook	Concrete..	City
Dutton.....	Western Canal.....	Wood	City
East Merrimack.	Eastern Canal	Wood	Props. Locks & Canals
East Merrimack.	Concord River.....	Iron and stone....	City
Gorham.	River Meadow Brook	Wood	City
Hale.....	B. & M. R. R.....	Iron	B. & M. R. R.
Hall	Western Canal ...	Wood	Law. Mfg. Co. & T. & S. Mills

BRIDGES—Continued

Streets	Location	Material	Maintained by
Howard.....	River Meadow Brook	Stone	City
Jefferson.....	Western Canal	Iron	City
Lawrence.....	Concord River.....	Wood	City
Lawrence.....	Wamesit Canal.....	Concrete..	Wamesit Power Co.
Lincoln.....	River Meadow Brook	Wood	City
Lundberg.....	B. & M. R. R	Iron	City
Market	Merrimack Canal ...	Wood	City
Market	Western Canal.....	Wood	City
Merrimack.....	Merrimack Canal ...	Stone and brick ...	Props. Locks & Canals
Merrimack.....	Western Canal.. ..	Wood	Props. Locks & Canals
Moody	Western Canal.....	Wood	City
Moody	Merrimack River....	Iron	City
Newhall	River Meadow Brook	Iron	City
Pawtucket.....	Western Canal	Wood	Props. Locks & Canals
Pawtucket.....	Pawtucket Canal ...	Wood	Props. Locks & Canals
Plain.....	River Meadow Brook	Concrete..	City
Rogers.....	Concord River. . . .	Stone	City
School	Merrimack River....	Iron	City
School	Northern Canal	Brick and stone....	Props. Locks & Canals

BRIDGES—Continued

Streets	Location	Material	Maintained by
School	Pawtucket Canal...	Wood	Props. Locks & Canals
Suffolk	Northern Canal	Wood	Props. Locks & Canals
Thorndike	Pawtucket Canal....	Wood	Props. Locks & Canals
Wilder.....	B. & M. R. R.....	Wood and iron.....	B. & M. R. R.
Worthen	Western Canal	Wood	City

SEWERS BUILT BY THE CITY OF LOWELL IN 1910

STREET	FROM	TO	LENGTH AND SIZE PIPE SEWERS				BRICK SEWERS		AVERAGE DEPTH	CUBIC YARDS LEDGE	MAN-HOLES	BEGUN	FINISHED	COST	TOTAL LENGTH
			8 in.	10 in.	12 in.	15 in.	LENGTH	SIZE							
Aberdeen.....	Humphrey St	Southerly.....			199.8				5.5		1	Aug. 12...	Aug. 17...	\$ 368.50	199.8
Albert.....	End of old sewer.....	Westerly		169.0					8.3		1	Nov. 9....	Nov. 15...	407.20	169.0
Bond	Stevens St.....	Westerly		197.0					8.0	114.00	2	May 10...	May 31...	1,135.45	197.0
*Chauncey	Shaw St.....	B Street.....			838.5				8.8	87.0	4	Sept. 30...	Dec. 8....	3,819.17	838.5
Crawford	Fourth Ave.....	Southeasterly		182.5					8.1	43.0	2	Aug. 18...	Sept. 7....	755.59	182.5
Cumberland Road	Fisher Street.....	Farmland Road.....			240.0				9.6		1	Apr. 27...	May 14...	823.33	240.0
Dutton, rebuilt (98.4 ft, 13 in. by 17 in. br).....	Music Hall Ave	Merrimack Street				221.0			12.8	557.0	1	July 15...	Oct. 19...	5,165.74	221.0
East Merrimack.....	Oaklands Main Sewer.....	Plummer Avenue					297.2	25 in. by 37½ in.	8.6	131.0	2	Apr. 25...	June 6....	See Plummer Av.	297.2
East Merrimack.....	Stackpole St.....	Brown Street.....				387.3			12.1	51.0	2	Oct. 5....	Oct. 28...	1,917.00	387.3
Front.....	Old sewer.....	Westerly		502.7					9.0		3	May 5....	May 17...	1,051.00	502.7
Glenwood	Wentworth Ave.....	Easterly		161.8					11.1		1	June 16...	June 29...	556.71	161.8
Harland Avenue.....	Andover Street	Northerly		219.3					6.4		1	Oct. 29...	Nov. 8....	456.64	219.3
Harris Avenue.....	Shaw Street.....	B Street.....			819.2				8.7	85.0	5	Aug. 19...	Sept. 29...	2,427.89	819.2
Holden Street.....	Princeton Street	Southerly.....	328.0						8.4		2	Nov. 7....	Nov. 21...	687.81	328.0
Lawrence	Old sewer	Rockingham Street		191.0					7.9		1	May 18...	May 25...	See Rockingham	191.0
Mammoth Road.....	Varnum Ave.....	Southerly.....	85.						8.5			Aug. 12...	Aug. 16...	241.95	85.0
Manchester Street.....	Court Street.....	Easterly			772.8				10.1		3	Nov. 21...	Jan. 9, '11.	1,813.39	772.9
Melvin	Dump sewer	Westerly		502.1		432.0			5.5	193.0	5	Aug. 18...	Oct. 15...	2,669.14	934.1
Monadnock Avenue.....	Westford Street.....	Raynor Street.....		398.4					9.5	490.0	2	Oct. 21...	Feb. 8, '11.	4,393.75	398.4
**Plummer Avenue.....	East Merrimack	Southerly			557.8				9.1	214.0	2	June 6....	July 13...	6,254.84	557.8
***Rockingham	Lawrence St.....	Northerly	334.8						7.8		2	May 24...	June 3....	1,065.39	334.8
St. James, rebuilt.....	132 feet east of Meadowcroft St.....	Easterly.....			89.				8.6			March 3...	March 23	315.95	89.0
Shaw	Bennett Street.....	Chauncey Street.....			202.8				9.4	118.0	1	Sept. 30...	Dec. 8....	See Chauncey St.	202.8
South Wilder.....	Midland Street	Avery Street.....			502.4				9.7		2	Sept. 8....	Sept. 29...	1,235.07	502.4
Stackpole.....	Brown Street	Southwesterly			417.3				8.5		2	July 27...	Aug. 11...	1,039.04	417.3
Sunmit	Fairmount Street.....	Easterly			399.2				8.7		3	Nov. 17...	Dec. 17...	1,366.61	399.2
Walker, rebuilt.....	West Adams Street.....	Southerly.....				54.4			13.3			Aug. 4....	Aug. 11...	275.85	54.4
West Manchester St.....	Main Street	Easterly.....	127.0						10.4		1	June 7....	June 15...	375.41	127.0
White	Mt. Hope Street.....	Northerly		281.6					9.4	94.0	3	June 8....	July 26...	2,389.81	281.6
Wilder.....	Shaw Street.....	Southerly.....			698.4				9.4	105.0	4	June 30...	Aug. 18...	2,937.28	698.4
			874.8	2805.4	5737.3	1094.7	297.2							\$45,945.51	10,809.4

Lineal feet of sewers laid in 1910.....10,809.4 feet = 2.05 miles.

Sewers previously laid..... 103.61 miles.

105.66 miles.

Deduct 241.8 lineal feet of sewers rebuilt..... .05 miles.

Length of sewers Jan. 1, 1911..... 105.61 miles.

*Cost includes Shaw Street.

**Cost includes East Merrimack Street.

***Cost includes Lawrence Street.

Settling basin built in Marginal Sewer west of overflow at Pawtucket canal. Cost, \$1,019.81.

W. H. Boardman

SUMMARY OF
SEWERAGE STATISTICS

IN FORM

RECOMMENDED BY

SANITARY SECTION

OF

Boston Society Civil Engineers

YEAR ENDING DECEMBER 31, 1910.

GENERAL.

Population by census of 1910.....	106,294
Total area of City	14.1 square miles.
Area served by sewerage system.....	About 10 square miles.
Collection system {	
For sewage only	1.19 miles.
For sewage and surface water	102.45 miles.
For surface water only....	1.975 miles.
Method of Disposal—Discharged into Merrimack and Concord Rivers.	

COLLECTION.

Mains, (Everything but House and Catch Basin Connections).

	For Sewage Only	For Sewage and Surface Water	For Surface Water Only.
1. Lineal feet stone.....		6,125	
2. Lineal feet brick		170,098	
4. Lineal feet pipe	6,270	364,764	10,429
5. Lineal feet extended during year		9,963	
8 Method of flushing—By hose connection with hydrants and Water Works blow-offs.			
	For Sewage Only	For Sewage and Surface Water	For Surface Water Only
11. Number of direct connections with water mains for flushing			5
13. Cost of flushing per mile		\$112 00	
14. Number of miles cleaned		83	
15. Cost of cleaning per mile		\$225 00	
16. Number of stoppages		6	
18. Number of storm overflows....		10	
19. Method of ventilation		Through manholes	
20. Cost of maintaining sewer sys- tem exclusive of disposal works (including cost of flushing and cleaning sewers; cost of cleaning catch basins; administration and unclassi- fied expense).....		\$19,870 18	

HOUSE CONNECTIONS.

21.	By whom made.....	Local contractors
22.	Sizes.....	5 to 8 inches
23.	Number made during year.....	168
24.	Lineal feet laid during year.....	5,000
27.	Average cost per ft., connections made during year.....	\$0 50
28.	Number of stoppages coming to attention of department	46

CATCH BASINS.

29.	Number.....	3,578
30.	Number cleaned.....	All
31.	Average amount material removed per catch basin..	1.2 cu. yds.
32.	Cost of removing material per cubic yard.....	\$1 30
33.	Cost of removing material per catch basin per year..	\$1 52

DISCHARGE OF SEWAGE.

34.	Estimated population using sewage system	100,000
35.	Number of buildings connected.....	11,870

Annual Report of Chief Engineer of the
**FIRE DEPARTMENT OF
THE CITY OF LOWELL**



For the Year Nineteen Hundred and Ten

REPORT.

CHIEF'S OFFICE,

PALMER ST. ENGINE HOUSE,

LOWELL, January 1, 1911.

To the City Council of the City of Lowell:

GENTLEMEN:—In accordance with the requirements governing the Fire Department, it becomes my duty, as Chief Engineer, to present to you the annual report of the Fire Department of the City of Lowell for the year ending December 31, 1910.

The report will be found to contain statements in detail embracing the amount of expenditures, a register of the department, with age, residence, and occupation of each member, a record of all fires and alarms which have occurred during the year, and the cause thereof, with the names of the owners and occupants, the loss and insurance, as nearly as could be ascertained and such information as is thought proper for your consideration.

The following statement will show the receipts and expenditures.

RECEIPTS

Appropriation.....	\$163,000.00
Extra appropriation	5,209.37
	<hr/>
	\$168,209.37

EXPENDITURES

Pay rolls	\$138,639.04
Water works	491.71
Hose and repairs of same	1,475.66
Telephones	268.94
Express and freight	38.78
Horses and use of same	2,873.90
Shoeing	2,123.98
Veterinary and medicines.....	262.00
Hay, straw and grain	8,410.85
Harness and repairs	563.95
Furniture and bedding	426.02
Coal and wood	2,719.01
Gas	2,592.92
Printing	233.50
Repairs on apparatus	2,539.25
Laundry	177.19
Fire alarm boxes and repairs	1,778.38
Oils, sponges, etc.	2,594.29

Total expenditures for the year	\$168,209.37
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In addition to the above an appropriation of \$3,000.00 for underground wires. Some cable has been ordered, but nothing expended as yet.

SALARIES OF MEMBERS OF FIRE DEPARTMENT

Chief Engineer	\$2,200.00 per annum
First Assistant Engineer.....	1,500.00 per annum
Other Assistant Engineers	400.00 per annum
Call Men	200.00 per annum
Permanent Men	2.75 per day
Captain of Companies (Permanent)	3.00 per day
Engineers of Steamers (Permanent)	3.00 per day
Lieutenants of Companies (Permanent) .	2.90 per day

This department is divided into two classes, Permanent and Call. The permanent force consists of

1 Chief Engineer	27 Drivers
1 First Assistant Engineer	23 Laddermen
1 Fire Alarm Operator	6 Engineers of Steamers
48 Hosemen	8 Patrolmen
1 Lineman	

A total of 116, of which 17 are Captains and 18 Lieutenants.

The Call force consists of

3 Assistant Engineers	51 Hosemen
16 Laddermen	

A total of 70.

This makes a total of 186, divided into companies as follows:

- 6 Steam Fire Engines, with Hose Wagons.
- 6 Horse Hose Companies.
- 4 Hook and Ladder Companies, 2 with Chemical Engines attached.
- 1 Protective Company.

The changes in the force during the year have been as follows:

Appointed on the Call force	7
Appointed on the Permanent force	2
Promoted	2
Died	2
Transferred	6
Pensioned	1

The apparatus is kept in the best possible condition, and consists at present of six Engines, twelve two-horse Hose Wagons, one Babcock and one LaFrance Aerial Trucks and two trucks of other patterns, two Chemical Engines, one Hale Water Tower, one Auto Patrol Wagon and Sleigh, fully equipped, six Hose Pungs, eight Fuel Wagons, two Wagons and one Sleigh for use on fire alarm, one Wagon and Sleigh for Chief's use, one Wagon for Assistant Chief's use, and thirty Fire Extinguishers. In reserve there are three two-horse Hose Reels.

Engine 2 has been in service since 1882, and should be sent off and be rebuilt, which will make her as good as new.

FIRE ALARM

This branch of the service has been maintained in most excellent condition by the operator, Mr. H. C. Fernald.

There have been seven hundred and forty-seven alarms given from signal boxes, and the "No School" signal has been given twelve times the past year.

Connected with the circuit there is one ten-circuit non-interfering repeater, one ten-circuit cut-out and testing switch-board, one slate protector, twelve galvanometers, twelve bell-strikers, seventeen large gongs for engine houses, eight small gongs, eighteen indicators, one tape register, seventeen electro-magnets and connections for opening stall doors, one hundred

and thirty-one public and thirteen private signal boxes, one hundred and ten miles of wire, the whole supplied with a storage battery of five hundred and thirty cups.

There is also one large gong and indicator combined in the Police Station, one large gong in Pumping Station, Merrimack Square, Tower's Corner, corner of Bridge and First Streets, near the Northern Depot, and corner Moody and Aiken Streets.

Two new boxes have been added. The repeater and some of the boxes have been made over the past year.

TELEPHONE

There are connected with this system twenty-one stations, consisting of transmitter, telephone bell and battery; there are also twenty-eight tap bells for the rooms of the Engine Houses, and about forty-four miles of wire owned by the City, under the care of the Fire Alarm Operator, except the receivers and transmitters, which are leased from the Telephone Company. The ringing line is supplied by a storage battery of one hundred and fifty cups.

HORSES AND HARNESES

There are sixty-one horses in the service of the department. Fourteen new ones have been purchased the past year to take the place of fourteen that had passed their usefulness for this department. There are twelve sets of double, ten sets of three-horse hitch harnesses, and four swinging harnesses of the Berry and Hale patents.

PROTECTIVE DEPARTMENT

This department is maintained by the City and consists of nine Permanent men. They have responded to three hundred

and forty-five alarms; in service four hundred and six and one-half hours; spread four hundred and sixty-nine covers; used two hundred and eleven extinguishers and forty-nine tanks; raised three hundred and ninety feet of ladders; thirteen hundred and twenty-two hours inspection duty. Their automobile was put in service April 2nd. They have answered since that time two hundred and sixty-four alarms and traveled nine hundred and ninety-three and three-tenths miles.

Chemical B, attached to Truck 3, used forty-four (eighty-five gallons) tanks. Chemical C, attached to Truck 2, used forty (eighty-five gallons) tanks.

HOSE

The department received two thousand feet of 2½ inch hose the past year and will need two thousand feet of new hose the present year.

NEW HYDRANTS SET 1910

Bartlett Street	6" Ludlow Hydrant
Beacon Street	6" Pratt and Cady
Bennett Street	6" Ludlow
Brookside Street	6" Boston Post
Duren Avenue	6" Chapman
E. Merrimack Street	6" Boston Post
Harris Avenue	6" Chapman
Harland Avenue	6" Ludlow
Hoyt Avenue	6" Ludlow
Lincoln Street	6" Ludlow
Middlesex Street	6" Ludlow
Newhall Street	6" Poston Post
Perry Street	6" Ludlow
Perry Street	8" Ludlow
Plain Street	6" Boston Post

Sidney Street	6" Ludlow
Stackpole Street.	6" Ludlow
Summit Street	6" Chapman
Trull Terrace	6" Ludlow
Warrenville Avenue	6" Ludlow
Webber Street	6" Boston Post
Wilder Street	6" Ludlow

HYDRANTS DISCONTINUED

Marshall Road	6" Boston Post
Lincoln Street	6" Ludlow
Walker Street	6" Ludlow
Western Avenue	6" Ludlow
Andover Street	6" Ludlow

FIRES AND LOSSES

The whole number of alarms during the year ending December 31, 1910, was nine hundred and four (904). Two hundred and twelve (212) were given from signal boxes; three hundred and fifty-nine (359) telephones; one hundred and thirty-one (131) stills; forty (40) automatics; seven (7) exposures; and one hundred and fifty-five (155) reported fires. The "No School" signal was given twelve (12) times. There were four hundred and fifty-six (456) fires extinguished by chemicals alone, and one hundred and sixty-three (163) where water was used. The remaining number were extinguished by other means or had been put out before the arrival of the department. Ninety-nine (99) fires were in brick or stone buildings; five hundred and sixty-four (564) in frame buildings, and two hundred and forty-one (241) other than building fires. The whole amount of loss except the reported ones was fifty-nine thousand two hundred and seventy-four dollars and sixty-two cents (\$59,274.62). Insurance \$4,021,969.00, insurance paid \$56,086.62. Loss above insurance \$3,188.00. Valuation \$4,829,233.00. The reported

loss was \$8,695.31, insurance \$710,252.50, valuation \$713,800.00. There have been twenty-two (22) alarms out of the City to which some part of the department has responded, for which no insurances are kept; Dracut 10, Tyngsboro 3, Tewksbury 3, Chelmsford 2, Dunstable 2, Westford 1, Billerica 1.

This City was again fortunate in having so few large fires the past year. Nearly one-half of our whole loss for the year happened at four (4) fires in December. There have been only twelve (12) fires where the loss was \$1,000.00 and over. February 22nd, W. L. Parker's dwelling on Wilder Street, \$1,075.00. March 7th, N. Y., N. H. & H. R. R., off Howard Street occupied by Fay Bros. & Hosford for storage, \$2,000.00. April 27th, building owned and occupied by W. H. Williams as a furniture store on Middlesex Street, \$3,364.00. May 6th, block owned by W. A. Ingham Est., occupied by Ingham Co., grocers, and Kelley & Co., printers, on Church Street, \$1,337.98. June 11th, Wamesit Power Co., on Lawrence Street, occupied by the Waterhead Mills Corp., \$2,601.74. September 27th, stable owned by Mrs. Blackburn and dwelling owned by M. A. Cross. The stable occupied by M. Grosse for storage on Summer Street, \$1,925.00. September 27th, stable on High Street, owned by L. C. Dodge Estate and occupied by John McCullough, John Dwyer and J. Murkland, \$1,496.50. November 26th, automobile belonging to Dr. F. R. Mahoney, \$1,500.00. December 6th, building owned by Thos. McKay, P. F. Brady and Alice Donahoe on Gorham Street, \$1,135.65. December 11th, dwelling owned and occupied by A. Desmarais, Pawtucket Street, \$1,264.00. December 30th, block owned by Miss L. G. Gerrish on Central Street and occupied by the Merrimack Engraving Co., A. J. Filion, J. Coughlin and C. A. Spencer, \$8,361.55. December 30th, block on Middle Street owned by A. G. Pollard Co., occupied by A. G. Pollard Co., United American Mechanics and Lady Franklin Daughters of Liberty, \$11,207.95. The total loss on these twelve (12) fires was \$37,269.37.

There have been eleven (11) fires where the loss was between \$500.00 and \$1,000.00. January 12th, a block on Appleton Street owned by J. F. & H. Howe Estate, occupied by Mrs.

D. H. Meister, \$691.80. March 24th, stable on Third Street owned by P. J. Creegan, occupied by S. W. Parker, \$809.00. April 17th, dwelling on Moody Street owned by S. Gaulin, occupied by J. Leclair, \$555.30. July 9th, garage and shed on Moody Street owned and occupied by Dr. P. Brunelle, \$775.00. July 10th, automobile owned by A. G. Beharrell, \$700.00. September 17th, hotel on Middlesex Street owned by G. L. Huntoon, occupied by H. Mellen, \$526.50. September 18th, shed and wood yard on West Third Street owned by W. P. Meek. The estate of J. M. G. Parker had an exposure from this fire, total loss \$651.90. October 17th, building on Middlesex Street owned by E. Greenberg. H. Smith & Co., and Middlesex Social Club occupants, \$894.99. October 19th, dwelling on Talbot Street owned by Mrs. S. Walker, occupied by A. J. Murkland, \$665.00. October 31st, building on Middlesex Street owned by E. Greenberg. T. J. Fitzgerald and J. F. Mooney occupants, \$763.00. November 8th, stable on Walker Street owned by W. H. Howe and occupied by T. R. Cox and H. A. Worden, \$583.00. The total loss on these eleven (11) fires was \$7,615.49:

Total loss on these twenty-three (23) fires was \$44,884.86, leaving \$14,389.76 to be divided between the other seven hundred and twenty-six (726) alarms.

The following is the number of buildings of all kinds in the City:

Total number of wood buildings	.	.	.	.	.	17,714
Total number of brick buildings	.	.	.	.	.	1,071
Total number of iron buildings	.	.	.	.	.	3
Total number of stone buildings	.	.	.	.	.	55

Total number of buildings of all descriptions	.	.			18,843
---	---	---	--	--	--------

An increase during the past year of	237
-------------------------------------	---	---	---	---	-----

Some of these blocks have from four to twenty tenements.

The following table shows the number of alarms of fire each month:

January	35	August	44
February	41	September	54
March	91	October	60
April	91	November	58
May	56	December	86
June	33	Reported	155
July	100		
		Total	904

The following table shows the causes of the different alarms as near as could be ascertained:

Awnings	5	Gas stove	4
Alarms for same fire	43	Gas jet set paper	1
Automobiles	14	Hot iron set flask	1
Brush	27	Hot ashes	10
Beds	4	Japanese lanterns	2
Boiler smoking	4	Kettle of tallow	1
Careless use of candles	4	Lantern exploded	1
Chimney	70	Lime slacking	1
Coffee Roaster	1	No school	12
Careless use of matches	31	Oil stove	5
Careless smoking	22	Oil lamp	9
Cigarette stub	19	Overheated stove	7
Children and matches	23	Overheated stove pipe	3
Combustion	24	Out of the city	23
Clothes in closet	5	Overheated thermostat	5
Dump	58	Overheated fire place	1
Drying plaster	1	Overheated bearing	1
Defective chimney	20	Overheated boiler	4
Dust shute	2	Overheated chimney	5
Electric wires	7	Overheated smoke house	1
Exposure	7	Peat bog	1
False alarm	4	Rubbish	18
Fat on stove	10	Rats' nest in partition	14
Fire works	1	Reported alarms	155
Fire crackers	7	Rekindled	10
False alarm by telephone	4	Sawdust spittoon	1
Fumigating house	1	Steam pipe burst	1
Fight in street	1	Stove smoking	16
Friction of belt	1	Supposed incendiary	2
Gasoline explosions	3	Spark set roof	20
Gas explosions	3	Spark set floor	1
Gas jet wood	3	Spark set railroad ties	2
Gas jet set curtain	1	Spark set bridge	1
Grass	77	Smoking in bed	1

Sparklets . . .	1	Trees	2
Steam escaping . .	5	Water leak . . .	8
Spark set platform .	2	Washing streets .	6
Thawing water pipe .	1	Wetting buildings .	4
Tar kettle	3	Water out of boiler .	1
Thermostat system out		Unknown	11
of order	26		

SERVICE OF THE DEPARTMENT FOR 1910

FIRE DEPARTMENT

15

	Number of alarms attended	Number of hours worked	Feet of hose laid	Hours of hydrants in use	Number of extinguishers used	Number of chemical tanks used	Feet of ladders raised	Hours engines worked	Number of covers used
Engine	103	91 $\frac{1}{2}$	4,600	8 $\frac{1}{2}$	53			1	
"	93	91 $\frac{1}{2}$	5,150	4 $\frac{3}{4}$	54			3 $\frac{1}{2}$	
"	194	203 $\frac{3}{4}$	7,300	15 $\frac{3}{4}$	21			3	
"	187	191 $\frac{1}{4}$	16,700	36	76				
"	110	113 $\frac{1}{4}$	9,650	14	96		457	2 $\frac{3}{4}$	
"	127	109 $\frac{1}{2}$	7,400	9 $\frac{1}{4}$	21			1 $\frac{1}{2}$	
Hose	144	114	9,300	11	39				
"	143	97 $\frac{1}{2}$	7,150	9	71				
"	82	82	3,600	10 $\frac{1}{4}$	38				
"	107	129	9,125	26 $\frac{1}{2}$	34		218		
"	55	55 $\frac{1}{2}$	3,700	6 $\frac{1}{2}$	48				
"	116	115 $\frac{3}{4}$	7,950	9 $\frac{1}{4}$	40				
Truck	51	58 $\frac{1}{2}$				40	669		
"	126	145				44	738		
"	237	258 $\frac{1}{4}$					1,206		
"	81	82 $\frac{1}{2}$				49	1,263		469
Protective	345	406 $\frac{1}{2}$			211		395		
	2,301	2,350 $\frac{1}{2}$	91,625	160 $\frac{3}{4}$	802	133	4,946	9 $\frac{1}{4}$	469

1,322 hours inspection duty.

The following are the number of alarms answered by members of the Department on their days off:

Lieut. Akers, 1; Lieut. Abare, 6; Lieut. Alcott 1; G. S. Alcott, 2; Ambrose, 4; Barrett, 12; Bugbee, 10; Bernier, 7; Bishop, 6; Barnes, 13; Capt. Boynton, 1; R. S. Burns, 1; Broadbent, 8; C. L. Brown, 1; Capt. Bartlett, 5; Capt. Brown, 4; Campbell, 1; F. G. Collins, 6; Carland, 10; Capt. Crowley, 6; M. I. Collins, 1; Lieut. Chapman, 1; Lieut. Collins, 6; C. Collins, 8; Conway, 3; Cogswell, 4; Donahoe, 1; Lieut. Dunn, 4; W. T. Dolan, 3; Dickey, 1; D'Amour, 1; Capt. Dolan, 3; W. F. Eagan, 1; Capt. Foley, 4; H. L. Foster, 8; Lieut. Flint, 3; Foss, 11; Capt. Fuller, 3; Finnegan, 3; Fontaine, 1; Fletcher, 3; Q. A. Foster, 4; Gardner, 1; Capt. Hemenway, 6; Lieut. Halstead, 3; Capt. Halstead, 17; Geo. Halstead, 1; Capt. Hurley, 3; Heelon, 4; H. Hilliard, 1; Lieut. Harris, 5; Capt. Hoyt, 1; Capt. Hilliard, 1; Ismond, 1; Jantzen, 9; Jennings, 1; Kidder, 4; Lowney, 4; Landry, 1; Lovett, 4; Maker, 1; Merrill, 4; Lieut. McCafferty, 12; Capt. McKissock, 2; P. Mooney, 2; McGuinness, 3; Mahoney, 1; McCarthy, 2; Morrison, 1; Maynard, 5; O'Hare, 4; Oatley, 2; Oke, 3; Perham, 2; Pendexter, 7; Page, 1; Prescott, 4; Rinehardt, 12; Rowell, 10; Rock, 1; Rogers, 1; B. C. Reed, 6; L. P. Reed, 4; Russell, 3; Schofield, 3; Shea, 2; T. Saunders, 4; Simpson, 1; Sloan, 12; Capt. Sullivan, 2; Smith, 2; C. F. Stackpole, 4; Simons, 3; Tighe, 6; Townsend, 3; Turner, 1.

There were four deaths by burning the past year. January 30th, Mrs. Jane Hill, Lakeview Avenue, 74 years old. Lamp exploded, setting her clothes on fire. July 4th, Geo. Brett, Chestnut Street, 3 years old, playing with matches. October 19th, Mamie Bontacabbage, Winter Street, 4 years old, playing with matches. December 25th, Mrs. Margaret Casey, Dutton Street, 46 years old. Cause unknown. Clothes all burned off.

There have been three deaths in the Department the past year. Thos. Bryan, a Call man, in Engine Co. 4. Joined the

Department July, 1899. Died January 28, 1910. B. F. Freeman, a Permanent man, in Engine Co. 3, joined the Department for the third time July, 1892. Everybody knew Ben. Died April 6th. Geo. F. Salmon, a pension man. Was an Assistant Engineer for a number of years. Joined the Department June, 1857. Died November 8, 1910.

The following is a list of the men injured the past year: Assistant Engineer Chas. Stackpole, W. T. Dolan and P. Mooney, Engine 4; G. A. Crawford and A. F. Prescott, Engine 2; Capt. Sullivan, P. McLaughlin and J. J. Donahoe, Hose 7; G. E. Schofield and T. F. Conway, Truck 4; B. F. Freeman, Engine 3.

LOWELL FIREMEN'S FUND ASSOCIATION

This benevolent association was organized December 17, 1885, for the purpose of furnishing relief to such of its members as should receive injuries while in the discharge of their duties. The income is derived from an annual assessment upon each member, and by donations from citizens and others; and in behalf of the members of the association, I would return thanks to all those who have aided us in the past.

The following donations have been received during the past year:

Boston and Northern Street R. R.	\$ 50.00
Town of Tyngsboro	75.00
H. S. Fletcher, Westford	30.00
Chief Kerr, St. Johns, N. B.	5.00
	<hr/>
	\$160.00

The following shows the amount standing to the credit of the association December 31, 1910:

Balance on hand December 31, 1909 ...	\$24,522.51
Cash received to December 31, 1910	1,326.63
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Total	\$25,849.14
Cash paid out	1,538.41
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On hand December 31, 1910	\$24,310.73

Schedule of all the Fires which Occurred in the City of Lowell during the Year ending December 31, 1910

[illegible]

Schedule of all the Fires which Occurred in the City of

Date	Time	Signal	Recall	Location	Wood, Brick or Stone	Owned by	Occupied by	Occupied as	Amount of Damage		Amount of Insurance		Am't of Insurance Pd.		Cause of Alarm
									Building	Contents	Building	Contents	Building	Contents	
Jan. 1	12 44 p m	162	12 57 p m	Wilder st.	Wood	D. Gage Est.	D. Gage Est.	Wood shed							Careless use of matches
1	1 47 p m	Aut.		Lincoln st.	"	W. S. Watson	Copperdix Tube Co.	Tube Mfg.							Thermostat out of order
1	7 15 p m	Still		Ludham st.	"	Lucy O'Hare	Several	Dwelling	\$ 17 50		\$ 2,000 00		\$ 17 50		Gas jet set curtain
1	9 58 p m	19	10 09 p m	Gorham st.	"	J. F. Saunders	A. M. Bettencourt.	Grocer	175 00	\$100 00	4,000 00	\$700 00	175 00	\$100 00	Gas jet set wood
2	9 39 a m	Tel.		Central st.	Brick	W. B. Spaulding	Several	Offices and stores							Rats' nest
3	12 12 p m	5	12 19 p m	Suffolk st.	Wood	E. Ansara	Several	Dwelling	197 75		3,985 00		197 75		Clothes in closet
3	1 30 p m	28	1 45 p m	Cheever st.	"	Unknown	"	"							Stove smoking
4	6 47 a m	182	6 52 a m	Watson ave	"	T. H. Elliott	"	"							Chimney
4	6 52 p m	Still		Third st.	"	J. C. Keith	J. C. Keith	"	3 00		1,000 00		3 00		Spark set roof
5	10 38 a m			Lincoln st.	"	G. F. Tilton	W. Hibbert	"							Same fire
5	11 05 a m	Tel.													No school
7	12 45 p m	222													Clothes in closet
8	9 02 p m	64	9 19 p m	Beech st.	Wood	D. J. Skillings	A. E. Moore	Dwelling	85 00	75 00	4,000 00	none	85 00		Boiler smoking
9	7 30 p m	Tel.		Merrimack st.	Brick	J. H. Harrington	Several	Printing office							
11	4 10 p m			Fletcher st.	Wood	E. D. Brennan	Several	Dwelling							
12	1 22 p m	24	1 52 p m	Appleton st.	Brick	J. F. & H. Howe Est.	Mrs. D. H. Meister		498 00	193 80	9,400 00	2,000 00	498 00	193 80	Careless smoking
14	6 05 p m	222													No school
15	10 00 a m	Tel.		Central st.	Wood	J. F. Mahoney Est.	Mrs. Watson	Grocer		7 00		800 00		7 00	Oil stove
15	6 35 p m	Aut.		Rogers st.	Brick	U. S. Bobbin Co.	U. S. Bobbin Co.	Bobbin Mfg.							Thermostat out of order
15	7 35 p m	Still		Market st.	Wood	Mrs. E. Spaulding	Several	Candy store							Defective chimney
15	7 37 p m	Tel.													Same fire
17	2 05 p m	Still			Brick	N. J. Weir Est.	F. M. Bill & Co.	Wholesale grocer							Coffee roaster
17	4 08 p m	125	4 12 p m		Wood	N. D. Spyropoulos	N. D. Spyropoulos	Restaurant							Stove smoking
18	7 45 a m	222													No school
18	11 23 a m	125	11 29 a m	Hanover st.	Wood	J. Higgins	Several	Dwelling							Defective chimney
18	10 05 p m	Still		Prospect st.	"	J. Flynn	"	"							Chimney
20	7 59 p m	32	8 08 p m	Bridge st.	Brick	H. A. Coon	"	"							Boiler smoking
23	11 20 a m	Still		Middle st.	Brick	J. M. G. Parker Est.	Tucke & Parker	Electric supplies	146 00	273 17	90,000 00	2,500 00	146 00	273 17	Combustion
23	11 25 a m	Tel.													
24	6 25 a m			Mammoth rd.	Wood	A. C. Varnum Est.	Mrs. E. Emery	Bakery	419 00	11 50	4,000 00	250 00	419 00	11 50	Gas jet set wood
24	6 27 a m	27	7 06 a m		"	"	E. F. Morrison	Meat market		106 00		400 00		106 00	Same fire
24	8 32 a m	Tel.			"										Rekindled
24	11 05 a m			West Fifth st.	"	Mr. Watson	Several	Dwelling							Chimney
24	12 46 p m	23	1 02 p m	L st.	"	Jas. Kennedy	Jane Welch		110 00		1,000 00		110 00		Careless use of matches
25	6 05 p m	222													No school
29	2 06 p m	77	2 12 p m	Prince st.	Wood	S. Sirk	Several	Dwelling							Fat on stove
30	5 11 a m	23	5 22 a m	Lakeview ave.	"	S. T. Brown Est.	"	"	82 00		1,000 00		82 00		Oil lamp explosion
30	5 45 a m	46	5 52 a m		"		"	"							Rubbish in yard
30	10 25 a m	Still		Agawam st.	"	Bramble Est.	"	"							Chimney
Feb. 1	5 01 a m	9	5 10 a m	Salem st.	Wood	W. Hennessey Est.	Pierre Drapeau	Grocer	10 00	20 00	1,500 00	350 00	10 00	20 00	Cigarette stub
2	7 09 p m	Tel.		Bleachery st.	Wood	A. C. Wheelock	Several	Dwelling							Chimney
2	7 52 p m	"		Fletcher st.	Brick	H. and E. Ryan	"	"	25 00		29,480 00		25 00		Careless use of match
2	10 10 p m	"		Lewis st.	Wood	E. Greenberg	"	"							Defective Chimney
2	11 40 p m	"		Pawtucket st.	"	F. Ayer	Several	Fruit store	10 00		400 00		10 00		Gas jet set wood
3	5 48 p m	52	6 01 p m	Moody st.	"	D. J. Murphy	Several	Dwelling	25 00	15 00	5,000 00	1,500 00	25 00	15 00	Fat on stove
4	7 45 a m	222													No school
4	11 45 a m	Still		Spring court	Wood	R. G. Bartlett	Several	Dwelling			3,000 00		40 50		Overheated stove
5	1 58 a m	225	2 23 a m	Lewis st.	"	E. Greenberg	"	"	40 50				40 50		chimney
*5	8 28 p m	Tel.		Willow Dale	"										
6	7 16 p m	113	7 22 p m	Pollard ave.	Wood	Hildreth Est.	Several	Dwelling							Chimney
6	7 18 p m	"		Bowden st.	"	Mrs. J. C. Fagan	Miss Fagan	"							"
6	8 31 p m	28	8 38 p m	Tucker st.	Wood	D. LaPort	Several	"							"
7	7 10 a m	Tel.		Holyrood ave	"	O. Hockmeyer	O. Hockmeyer	"			6,000 00	4,000 00			Defective chimney
7	8 28 a m	42	8 37 a m	Watson ave.	"	L. T. Montferrand	Several	"							Chimney
7	11 06 a m	46	11 17 a m	Second st.	"	Mrs. A. Fall	"	"	57 30		1,100 00		57 30		Thawing water pipes
8	9 06 p m	Still		Central st.	"	Mrs. E. Abbott	Mrs. E. Abbott	"							Chimney
8	10 01 p m	77	10 21 p m	Moody st.	"	W. B. Spaulding	French Am. Supply Co.	Grocer and meat	175 00	86 46	8,000 00	1,000 00	175 00	86 46	Combustion
10	10 00 p m	Tel.		Noble court	"	C. H. Noble	Several	Dwelling							Chimney
12	5 50 p m	441	6 05 p m	Warrenville	Brick	E. Cawley	P. H. Warren Co.	Paper Box Mfg.		349 00	100,000 00			349 00	Lantern exploded
14	1 42 a m	125	2 06 a m	Market st.	Wood	Mrs. E. Spaulding	Paulas Deroziers	Restaurant	194 00	300 00	3,000 00	none	194 00		Cigarette stub
14	1 42 a m	125	2 06 a m		"		L. Geftas.	"		51 00	800 00			51 00	Explosion
14	12 59 p m	Still		Lakeview ave.	"	Josh Gregoire	Several	Dwelling	200 00		5,000 00		200 00		Rats' nest
14	1 07 p m	Tel.			"		"	"							Same fire
14	1 36 p m	Still			"		"	"							Rekindled
14	1 37 p m	Tel.			"		"	"							Same fire
14	2 00 p m			Tucker st.	"	O. Delisle	"	"							Chimney
16	9 35 a m	Still		Central st.	"	W. B. Spaulding	"	"							Stove smoking
16	8 05 p m	125	8 12 p m	Market st.	Brick	James Sullivan	"	"							Oil lamp
17	6 05 p m	Tel.		Broadway st.	Wood	D. J. Murphy	"	"							Chimney
19	10 30 p m			Rockdale ave.	"	Con Daly	"	"							
20	4 00 a m	53	4 10 a m	Gorham st.	Brick	P. Farrell	J. Gordon	Restaurant	none	27 00	300 00			27 00	Rats' nest under floor
20	9 18 a m	Tel.		Wilder st.	Wood	W. L. Parker	W. L. Parker	Dwelling	475 00	600 00	17,000 00	13,000 00	475 00	600 00	Defective chimney
22	8 13 a m	33	8 42 a m	Waugh st.	"	Wash'g'tn Sav. Bank	W. E. Martin	"	85 00	98 00	2,000 00	300 00	85 00	98 00	Overheated stove
22	6 05 p m	222													No school
22	11 00 p m	Tel.		Moody st.	Wood	A. C. Wheelock	Several	Dwelling	87 00		2,100 00		87 00		Rats' nest in partition
23	2 09 p m	"		Lincoln st.	Brick	S. P. Squire	Bancroft Piano St'l Mfg.	Piano Stool Mfg.							Dust in Dry Room
25	9 08 p m	"		Coburn st.	Wood	C. E. Guthrie	Unoccupied	Dwelling							Drying plaster
25	9 12 p m	67	9 23 p m	Market st.	"	J. Donahoe	Several	Wood dealer	25 00		2,500 00		25 00		Same fire
27	2 59 a m	125	3 11 a m		"		C. Panagistakopoulos	Barber		130 00		700 00		130 00	Careless smoking
27	3 40 a m	125	3 46 a m	Aiken ave.	"	H. Demers	Unoccupied	Dwelling							Spark set floor
27	3 40 p m	Still			"	M. E. Shaddock	P. Ruiter	"	24 25		2,500 00		24 25		Lime slacking
28	7 25 p m	24	7 34 p m	Spring st.	Brick			"							Oil lamp set bed
Mar. 1	3 17 p m	Tel.		Middlesex st.	Wood	A. Howe	H. J. O'Dowd	Carriage shop							Gasolene explosion
1	7 10 p m	"		Swift st.	"	W. H. Cronin	W. H. Cronin	Dwelling							Chimney
1	7 18 p m	37	7 29 p m		"			"							
3	11 50 a m	Tel.		Branch st.	Wood	J. Turner Est.	Several	Dwelling							False alarm
6	9 30 a m	Still			"			"							Ash barrel
7	7 45 a m	222		Andover st.	"	A. E. Worcester	A. Sturgis	Dwelling							No school
7	1 09 p m	347	1 22 p m	Queen st.	"	M. Maguire	Unoccupied	"	200 00		500 00		200 00		Combustion of rubbish
7	5 11 p m	Still			"			"							Unknown
7	5 15 p m	145	5 52 p m	Off Howard st.	"	N. Y., N. H. & H. R. R.	Fay Bros. & Hosford	Storehouse		2,000 00	2,000 00			2,000 00	Same fire
7	10 23 p m	63	1 46 a m	Andrews st.	"	B. Silverblatt	Several	Dwelling	35 00	76 80	6,500 00	2,000 00	35 00	76 80	Combustion, supposed
10	12 15 p m	Still		Second st.	"	A. F. Hill	"	"							of rags
10	12 20 p m	46	12 35 p m	Hall st.	"	Geo. Parson	"	Grass land							Spark set roof
11	3 06 p m	"		Lawrence st.	"	Geo. Marshall	"	"							Grass
11	7 04 p m	"		Broadway st.	Wood	E. J. Murphy	Several	Dwelling							Chimney
12	12 03 p m	"		Meadowcroft st.	"	J. Warburton	Grass land	"							Grass
12	4 15 p m	Still		Smith st.	"	A. Conway	Several	Dwelling							Fat on stove
12	5 41 p m	Tel.		Fulton st.	"	J. V. Viles	"	"							Chimney
13	3 15 p m	Still		North st.	"	C. H. Hill	"	"							
14	4 20 p m	52	4 26 p m	Austin st.	"	J. Brownstone	O. Fisher	"	10 00	100 00	7,500 00	none	10 00		Children and matches
16	2 06 p m	26	2 14 p m	Fletcher st.	"	E. Bartlett	E. Bartlett	"	22 50		2,500 00		22 50		Spark set roof
16	2 28 p m	Tel.		Boylston st.	"	B. Wiggins	"	Brush							Brush
16	2 24 p m				Wood			"							Same fire
16	2 45 p m	415	3 10 p m	Lawrence st.	"	Several		"							Rubbish
16	4 10 p m	Tel.		Beacon st.	"			"							Grass
16	5 34 p m	"		Plain st.	"	W. Coburn		Grass land							
18	1 20 p m	"		First st.	"	Locks & Canals		"							
19	11 30 a m	"		Wentworth ave.	"	M. A. Gage		Dump							Dump
19	2 40 p m	Still		Wood											

of Lowell during the Year ending December 31, 1910

Date	Time	Signal	Recall	Location	Wood, Brick or Stone	Owned by	Occupied by	Occupied as	Amount of Damage		Amount of Insurance		Am't of Insurance Pd.		Cause of Alarm
									Building	Contents	Building	Contents	Building	Contents	
May	1 3 40 p m	Tel.		Varnum ave.		Locks and Canals		Grass land							Grass
	2 3 52 p m	131	8 30 p m	West st.	Wood	O. & M. McGarry	Several	Dwelling	\$ 25 00		\$1,000 00		\$ 25 00		Boys set tree
	3 8 21 p m	Aut.		Wall st.	Brick	M. Mooney	U. S. Bobbin Co.	Bobbin Mfg.							Clothes in closet
	4 7 00 p m	Still		Rogers st.	Wood	U. S. Bobbin Co.	Several	Dwelling							System out of order
	5 7 11 p m	"		Mammoth rd.	Brick	A. Leblanc		Turkish bath room							Chimney
	6 2 14 p m	"		Middle st.	Brick	J. M. G. Parker Est.		Dwelling							Flamingating bath room
	7 6 29 p m	Aut.		High st.	Wood	D. J. Donahue		Bobbin Mfg.							Defective chimney
	8 7 00 p m	53	5 56 a m	Rogers st.	Brick	U. S. Bobbin Co.	U. S. Bobbin Co.	Grocer	987 00	\$ 250 98	22,500 00	\$3,000 00	987 00	\$250 98	System out of order
	9 5 36 a m	53	5 56 a m	Church st.	"	W. A. Ingham Est.	Robert Kelley & Co.	Printer		100 00		none			Rats' nest
	10 10 33 a m	Tel.		Parkview ave.		D. W. Dewar		Grass land							Same fire
	11 1 05 p m	"		Chelmsford				Brush							Grass
	12 11 23 p m	24	1 10 a m	Jackson st.	Brick	Appleton Corp.	Appleton Corp.	Mill							Combustion of cotton
	1 1 46 p m	Still		High st.	Wood	J. Nesmith Est.	Several	Dwelling							Rubbish in cellar
	2 6 45 p m	Aut.		Rogers st.	Brick	U. S. Bobbin Co.	U. S. Bobbin Co.	Bobbin Mfg.							System out of order
	3 11 24 a m	Tel.		New st.	Wood	D. Mahoney	Several	Dwelling	10 00		1,300 00		10 00		Defective chimae
	4 11 26 a m	37	1 16 p m	Walnut st.	"	O. J. Gillogly	O. J. Gillogly	"	163 06		800 00		163 06		Same fire
	5 12 48 p m	43	1 17 p m	School st.	"	A. S. Horne	Lowell Rendering Co.	"	35 00		900 00		35 00		Rats' nest
	6 1 02 p m	Tel.		Inland st.	"	Mrs. E. Gray		"							Careless smoking
	7 2 13 p m	334	1 02 p m	Boston road		W. Manning		Brush land							Overheated stove pipe
	8 12 49 p m	Tel.		Smith st.	Wood	J. Richburge		Dwelling							Brush
	9 8 35 a m	"		Pawtucket st.	Wood	D. Gage Est.		Dump							Chimney
	10 8 45 a m	Still		Hildreth st.	Wood	A. C. Wheelock	Mrs. Emond	Dwelling		22 55		500 00		22 55	Dump
	11 7 45 a m	23	1 02 p m	Front st.	"	D. L. Monarozynski	A. Jusczyk	"	10 00	32 50	1,500 00	300 00	10 00	32 50	Bed
	12 12 53 p m	19	3 24 p m	Gorham st.	Brick	J. C. Burke	U. S. Bobbin Co.	Bobbin Mfg.							Careless smoking in hed
	1 3 17 p m	Aut.		Rogers st.	Wood	U. S. Bobbin Co.	U. S. Bobbin Co.	Bridge							System out of order
	2 7 27 p m	Tel.		School st.	Wood	A. C. Wheelock		Grass land							Cigarette stub
	3 1 00 p m	"		Easton st.	Brick	Locks and Canals		Dump							Grass
	4 7 00 p m	Aut.		Aiken st.	Wood	U. S. Bobbin Co.	U. S. Bobbin Co.	Bobbin Mfg.							Dump
	5 7 21 p m	Tel.		Rogers st.	Wood	A. Roderick		Dwelling	20 00		1,200 00		20 00		System out of order
	6 2 16 a m	"		Acton st.	Wood	A. G. Pollard		Dump							Careless smoking
	7 7 05 a m	"		Aiken st.	Wood	D. Gage Est.		Dwelling							Dump
	8 8 13 p m	232	9 01 p m	Mansur st.	"	Merrimack Wire Wks.		Dwelling							Chimney
	9 8 50 p m	131	7 43 p m	Bridge st.	"	Clark Bros.		Wire works							"
	10 7 41 p m	152	2 21 a m	E. Merrimack st.	"	Mrs. E. Burrows	C. Hebert	Fruit store							Lamp explosion set awniag
	11 2 06 a m	Still		Moody st.	Brick	Home for Children	Mrs. O'Leary	Dwelling	20 00		3,500 00		20 00		Defective chimney
	12 9 30 a m	28	2 34 p m	Kirk st.	Wood	J. Marin	Several	Children's home	10 00		none				Combustion of waste
	1 2 28 p m	28	5 02 p m	Aiken st.	"			Dwelling							Defective chimney
	2 4 42 p m	Still		West Sixth st.		Mrs. A. Hamelin	Mrs. Amadee Carson	Millinery	52 00	16 70	7,500 00	300 00	52 00	16 70	Overheated chimae
	3 8 24 p m	Tel.		Falmouth st.		Lowell Textile School		Dump							Gas jet set awning
	4 12 19 p m	"		Market st.				Dump							Dump
	5 7 32 p m	"		Clark road		Hood & Bartlett		Grass land							Fight in street
	6 1 50 p m	"		Tyngsboro	Wood										Grass
	7 5 30 p m	125	5 24 a m	Falmouth st.	Wood	Lowell Textile School	Several	Dump							Dump
	8 5 14 a m	Tel.		Jefferson st.		Louis Gelters		Dwelling	40 00		5,500 00		40 00		Oil stove
	9 10 40 a m	"		Middlesex st.		Gas Co.									Gas explosion
	10 2 10 p m	"		Thornlike st.		Locks and Canals		Bridge							Cigarette stub
	11 7 30 p m	"		Moulton st.		Locks and Canals		Dump							Dump
	12 7 42 p m	"		Middlesex st.	Brick	Davis & Sargent									Steam escaping
	1 9 20 p m	225	9 14 p m	Clinton ave.	Wood	R. L. Stevens	J. McCormick	Dwelling							Chimney
	2 9 05 p m	Tel.		Lagrange st.	"	Wash'g'n Sav. Bank	Several								Careless use of match
	3 6 31 a m	Still		Surfolk st.		Mrs. W. P. Barry									Chimney
	4 11 08 a m	52	5 35 p m	Aiken st.	Wood	Mrs. E. F. Brown Est.	Several	Bridge							Cigarette stub
	5 2 58 p m	Tel.		Moody st.	Brick	M. T. Stevens Est.	Cudahy Packing Co.	Dwelling							Spark set roof
	6 8 05 p m			Market st.				Smoke house							Overheated smoke house
June	1 7 37 a m	Tel.		Central st.	Brick	W. O. Fisk Est.	F. C. Goodale	Drug store							Water leak
	2 8 01 a m	Still		Westford	Wood	M. Moran	M. Moran	Dwelling							Asb barrel
	3 11 30 a m	Tel.		Maple st.	"	Fletcher									
	4 9 48 a m	"		Salem st.	"	N. Y., N. H. & H. R. R.		Rubbish							Rubbish
	5 11 15 a m	"		Pawtucket st.		J. Dacey	J. Dacey	Dwelling							Chimney
	6 2 38 p m	Still		Middlesex st.	Wood	D. Gage Est.	F. Green	Dump							Dump
	7 4 48 p m	225	3 29 p m	Middlesex st.		C. H. Healy	E. Hennessey Est.	Dwelling	25 00	35 00	5,500 00	1,000 00	25 00	35 00	Careless use of match
	8 3 18 p m	Still		Market st.		E. Hennessey Est.	Thos. Haly	Pool room							Defective chimney
	9 7 45 p m	24	12 01 p m	Davis st.	"	Thos. Haly	Several	Dwelling							Chimney
	10 11 50 a m	222		Summer st.		Mary O'Neil									Bed
	11 7 45 a m	Tel.		Middlesex st.	Wood	Louis Erlick	D. Lariviere	Dwelling		10 00		none			No school
	12 12 29 a m	42	12 41 a m	Lawrence st.	Brick	Wamesit Power Co.	Waterhead Mills	Mill	666 55	1,935 19	27,000 00	294,500 00	666 55	1,935 19	Smoking in bed
	1 1 26 p m	Tel.		Middlesex st.											Same fire
	2 1 31 p m	61	3 00 p m	Lawrence st.	Brick	Mrs. J. S. Gray	Mrs. M. Laflamme	Dwelling							Friction of helt
	3 12 01 a m	24	12 11 a m	Middlesex st.	Wood	Mrs. J. S. Gray	Several	Dwelling	10 00	15 00		none			Same fire
	4 11 50 a m	43	12 01 p m	Auburn st.		J. J. Burns					800 00		10 00		Careless use of match
	5 6 24 p m	24	6 30 p m	Middlesex st.	Brick	H. C. & J. F. Howe Est.									Stove smoking
	6 8 20 p m	82	9 12 p m	Chelmsford st.	Wood	N. A. Carp	N. A. Carp		132 00		2,300 00		132 00		Careless use of match
	7 9 15 a m	Still		Fulton st.		D. Gage Est.	Several								Chimney
	8 7 54 p m	Tel.		Andover st.	"	C. Daly									Stove smoking
	9 11 54 a m	Still		Jackson st.	"	F. Calvert Est.									Spark set roof
	10 6 45 a m	"		Crosby st.	"	W. Goggin									Stove smoking
	11 5 18 p m	"		Gorham st.	"	M. A. Phelaa									Chimney
	12 9 10 p m	9	9 19 p m	Salem st.	"	Peter Quinn Est.			5 00		3,000 00		5 00		Oil lamp
	1 2 18 p m	Still		Aiken st.		City		Bridge							Cigarette stub
	2 12 01 p m	116	1 30 p m	Merrimack st.	Wood	D. J. Hart	Several	Dwelling							Chimney
	3 1 21 p m	Tel.		Chapel st.		Mrs. E. Hill									
	4 2 07 p m	Still		Billerica											
	5 4 00 p m	58	1 03 p m	Moody st.	Wood	C. L. Gregoire	Several	Dwelling							Spark set platform
	6 12 54 p m	Tel.		Dutton st.		Lowell Machine Shop		Tar kettle							Tar kettle
	7 3 08 p m	Still		Boulevard		Locks and Canals		Dump							Dump
	8 3 12 p m			Andover st.		City		Bridge							Cigarette stub
	9 2 35 p m			Tanner st.		W. S. Watson		Dump							Dump
July	1 7 29 a m	24	7 38 a m	Elliot st.	Wood	J. H. Donnelly	Several	Dwelling							Defective chimney
	2 10 28 a m	Still		Merrimack st.	"	J. Connors									Careless use of match
	3 10 29 a m	Tel.		"	"	"									Same fire
	4 10 31 a m	125	10 39 a m	"	"	"									
	5 1 59 p m	Tel.		Aiken st.	"	City	Geo. Dion	Bridge							
	6 10 48 a m	"		Ludlan st.	"	Geo. Dion	Several	Dwelling	250 00	11 50	3,000 00	600 00	250 00	11 50	Gas stove set clothes
	7 2 06 p m	19	2 13 p m	Winter st.	"	J. S. Fleming		Bonfire							Firecracker set roof
	8 3 40 p m	Still		W. Manchester st.											Careless smoking
	9 3 42 p m	134	4 01 p m	Adams st.	Wood	R. J. Thomas	Several	Dwelling							Same fire
	10 8 35 p m	Still		Adams st.	"	Ellen T. O'Hearn									Firecracker set roof
	11 10 15 a m	"		"	"										
	12 10 15 a m	9	10 25 a m	Pawtucket st.		F. S. Bean	F. S. Bean	Automobile							Same fire
	1 2 35 p m	Tel.		Moody st.	Wood	L. B. Leonard	Several	Dwelling							Gasolene caught fire
	2 3 06 p m	Still		Stackpole st.		Locks and Canals		Dump							Firecracker set roof
	3 5 06 p m	Tel.		West Third st.	Wood	A. G. Scoboran	Several	Dwelling	225 00		1,500 00		225 00		Dump
	4 9 35 a m	23	10 03 a m	Thorndike st.	Wood	Locks and Canals		Bridge							Firecracker set roof
	5 10 00 a m	43	10 07 a m	Stackpole st.											False alarm
	6 2 49 p m	Tel.		Stackpole st.	Wood			Dump							Cigarette stub
	7 4 25 p m	5	4 02 p m	Market st.				Bridge							Same fire
	8 4 00 p m	Tel.		Salem st.	Wood	J. Dacey	Several	Dwelling	15 00		1,300 00		15 00		Dump
	9 5 10 p m	Still		Olive st.	"	S. Swan			3 05		400 00		3 05		Cigarette stub
	10 5 31 p m	9	5 38 p m	Simpson place	"	R. Simpson									Firecracker set roof
	11 6 10 p m	Tel.		"	"										
	12 8 50 p m	"		"	"										Fireworks
	1 9 04 p m	"		"	"										Same fire
	2 9 15 p m	24	9 22 p m	South st.	"	F. E. Donnelly	Lizzie Duran								Combustion
	3 11 49 a m	Tel.		Lincoln st.	"	J. P. Rohanson	Several		460 00		3,000 00		460 00		Spark set roof
	4 6 11 50 a m	338	11 57 a m	"	"										Same fire
	5 6 10 35 p m	Tel.		High st.		Syndicate		Dump							Dump
	6 7 10 05 a m	"		Fletcher st.	Wood	Salvation Army	Salvation Army	Head							

26	6 23 p m	Tel.	Merrimack st.	City													Same fire
27	4 15 a m	Still	Bridge st.	City													Washing streets
27	5 00 a m		Central st.	"													"
27	5 00 a m		Middlesex st.	"													"
27	5 00 a m		Suffolk st.	Wood	D. J. Murphy	Several	Dwelling										Chimney
27	7 50 a m	125	Fox st.	Wood	Several		Grass land										Grass
27	11 16 a m	Tel.	Aiken st.	Wood	City		Bridge										Cigarette stub
27	3 19 p m	"	Princeton st.		W. E. Livingston		Grass land										Grass
27	3 38 p m	"	Rogers st.		C. Boothby		"										Grass
27	10 16 a m	Tel.	Quebec st.		Mr. Connors		"										Grass
27	10 49 a m	Still	Aiken st.		City		Bridge										Cigarette stub
27	12 58 p m	Tel.	Queen st.		J. Trask		Tree										Park men set tree
27	1 05 p m	"	Liberty st.		J. F. Libby												"
27	1 10 p m	"	Front st.		Merrimack Corp.		Grass land										Grass
27	1 25 p m	"	E. Merrimack st.		Dr. Pillsbury												"
27	1 51 p m	"	Gorham st.		St. Patrick's Cemetery		Cemetery										"
27	2 00 p m	"	E. Merrimack st.		Dr. Pillsbury		Grass land										"
27	2 20 p m	185	Westford st.		G. W. McIntire		"										"
27	2 20 p m		Durant st.		Geo. Wright		"										"
27	2 34 a m	Tel.	South st.	Brick	M. A. Clark	Several	Dwelling										Chimney smoking
29	7 13 a m	24	Chelmsford														"
*29	7 35 p m	134	Stoddard st.		W. H. Wiggin Est.		Brush land										Brush
30	11 25 a m	Tel.	Eighth ave.	Wood	Mrs. C. Howe	Mrs. C. Howe	Dwelling	66 40		1,500 00		66 40					Gas jet set paper
30	2 24 p m	73	Butman rd.		Wood and Bartlett		Brush land										Brush
30	3 38 p m	Tel.	Canada st.		Boston & Maine R. R.		Grass land										Grass
30	5 58 p m	Still	Everett st.		Appleton Bank												Rubbish
30	6 40 p m	Still	West Sixth ave.				Grass land										Grass
31	1 56 p m	Tel.	Chestnut st.	Wood	Mrs. C. Haywood	Henry Bros.	Stable										Clothes in auto
April 1	1 08 p m	Tel.	Stackpole st.		Locks and Canals		Dump land										Dump
1	1 11 p m	249	Moody st.		S. B. Loring		Grass land										Same fire
1	4 15 p m	Still	Gorham st.		H. S. Lawson		Brush land										Grass
2	12 02 p m	238	Merrill ave.		Several		Grass land										Grass
2	1 50 p m	Tel.	Aberdeen st.														"
2	1 56 p m	"	Off Varnum ave.				Brush land										Brush
2	3 15 p m	"	Seventh ave.				Grass land										Grass
2	6 15 p m	"	Off Varnum ave.				Brush land										Brush
2	7 00 p m	174	First st.		Locks and Canals		Dump land										Dump
2	7 20 p m	Tel.			"		"										"
3	11 15 a m	"	Aiken st.		Several		Grass land										Grass
3	11 53 a m	"	Cunningham st.		City												"
3	1 12 p m	"	Boston road		O. Turcotte	O. Turcotte	Dwelling	240 00		1,000 00		240 00					Children and matches
3	1 20 p m	"	Off Chelmsford st.	Wood			"										Same fire
3	2 12 p m	Still	Ellis court	"	E. Traversy	Mrs. Lord	"			43 00		600 00		43 00			Cigarette smoking
3	3 35 p m	Tel.	Dalton st.		Several		Grass land										Grass
3	3 39 p m	"	Rear Christian st.	Wood	E. Traversy	Mrs. Lord	Dwelling										Cigarette smoking
3	5 02 p m	"	Dalton st.		Textile School		Dump land										Dump
3	5 31 p m	"	Falmouth st.	Wood	E. Traversy	Mrs. Ford	Dwelling										Cigarette smoking
3	5 39 p m	"	Dalton st.	Brick	Wm. Kittredge Est.	Simpson & Rowland	Grocer										Chimney
3	6 02 p m	Still	Middle st.	Wood													"
4	7 30 a m		Church st.	Wood	J. Robinson	Unoccupied	Stable										Unknown, supposed children
4	9 58 a m	315	Burton st.		M. L. Boucher	Bellefontaine Bros.	Shed and wagon	25 00		none							Careless smoking
4	8 31 p m	76	Fifth ave.	Brick	U. S. Bobbin Co.	U. S. Bobbin Co.	Bobbin Mfg.										Thermostat out of order
4	11 07 p m	Aut.	Rogers st.		Several		Grass land										Grass
5	11 01 a m	Tel.	Florence ave.		G. W. Hurd		"										"
5	1 26 a m		Berkeley ave.		E. Cawley		"										"
5	1 55 p m	341	Rogers st.		City		Dump land										Dump
5	3 30 p m	Tel.	West Fifth ave.		T. Boyle		Grass land										Grass
6	5 00 p m	"	Woodward ave.		C. R. Park		"										"
6	3 53 p m	"	Wentworth ave.		Several		"										"
6	7 10 p m	"	St. Hyacinth st.		N. Y., N. H. & H. R. R.		"										"
6	7 15 p m	"	Appleton st.	Wood	E. S. McOwen	Several	Dwelling										Chimney
7	2 15 p m		Billerica st.	"	W. E. Rigg	W. E. Rigg	" and stable	218 12		3,000 00				218 12			Unknown
8	7 17 p m	315	Market st.	"	John Spillane	Several	"										Same fire
9	3 21 a m	515		"			"										Careless use of match
9	3 38 a m	Still		"			"										Same fire
9	6 52 p m	9	Pawtucket st.		D. Gage Est.	Several	Dump land										Dump
9	6 57 p m	Tel.	Middlesex st.	Brick	Meadowcroft Est.	Several	Dwelling										Oil lamp
10	8 45 p m	"	Dracut		Several		Dump land										Mistake in calling
11	1 11 a m	"	Fairview ave.		E. T. Goward	J. Steinberg	Clothing										Dump
11	1 33 p m	"	Middlesex st.	Wood	R. G. Bartlett	Several	Dwelling										Rubbish in yard
11	2 05 p m	Still	Fayette st.		City		Dump land										Stove smoking
11	3 00 p m	"	High st.		Dracut		"										Dump
12	7 17 p m	Tel.	East Meadow rd.		N. Y., N. H. & H. R. R.	Trustees D. L. Page Co.	Bake shop	25 00	27 50	16,500 00	12,000 00	25 00	27 50				Careless smoking set sleepers
*12	7 39 p m	"	St. Hyacinth st.	Brick	Richardson & Poilard		Dump land										Careless use of match
13	2 00 p m	Still	Middle st.		Locks and Canals		Stable	45 00		300 00		45 00					Dump
14	1 23 p m	Tel.	Lincoln st.	Wood	F. E. Kappler	F. E. Kappler											Spark set roof
14	4 10 p m	Still		"													Same fire
15	10 20 a m	134	Glidden ave.		Mrs. L. Glidden	Milo Hale, Jr.	Dwelling	295 00	125 00	3,000 00	1,000 00	295 00	125 00				Rats' nest in partition
15	10 23 a m	184	Maple st.		Boston & Maine R. R.		Grass land										Grass
15	5 23 p m	Tel.	Merrimack st.	Wood	B. E. McGannon	Mary McSorley	Dwelling	75 00	97 00	8,000 00	1,000 00	75 00	97 00				Careless use of match
15	6 10 p m	49	Norcross st.	Brick	J. H. Harrington	F. E. Putnam	Restaurant	150 00		24,376 00		150 00					Overheated range
15	9 05 p m	13				Several	Stores and offices										Smoke
16	10 00 a m	Tel.	Aiken st.	City			Bridge										Careless use of match
16	11 39 a m	Still	Merrimack st.	Brick	J. H. Harrington	Several	Stores and offices										Smoke
16	2 55 p m	Tel.	Crosby st.	Wood	P. Brosnahan		Dwelling	20 00		3,000 00		20 00					Defective Chimney
16	7 29 p m	"	Worthen st.	Brick	Merrimack Corp.												Careless smoking
17	12 27 a m	77	Moody st.	Wood	S. Gaulin	J. Leclair	Brush land	255 30	300 00	4,000 00	none	255 30					Clothes in closet
17	3 12 p m	75	Old Marshall rd.		E. T. Goward		Dwelling										Brush
17	6 07 p m	Tel.	Concord st.	Wood	Peter Gogan	Peter Gogan											Chimney
20	7 45 p m	Still	Ash st.		A. G. Thompson	Several											Careless use of match
21	9 28 p m	Tel.	Lamb st.		D. Gage Est.		Dump land										Dump
22	6 38 a m	63	Howard st.	Wood	L. Carp	Several	Dwelling	90 00		2,500 00		90 00					Ash barrel
23	3 41 a m	73	East Meadow rd.		L. E. Mercier	L. E. Mercier	Potato shop	250 00		none							Lard caught fire
23	8 32 a m	Still	Merrimack st.	Brick	J. Marin	Several	Dwelling										Ash barrel
23	3 24 p m	"	Congress ave.	Wood	J. Swan Est.			20 00		1,200 00		20 00					Children and matches
25	8 13 a m	"	West Sixth st.		J. Boisvert												Careless use of match
25	1 30 p m	Tel.	First st.		Locks and Canals		Dump land										Dump
25	2 06 p m	283	Norcross st.	Wood	D. Coates	D. Coates	Dwelling										Chimney
26	11 02 a m	Aut.	Rogers st.	Brick	U. S. Bobbin Co.	U. S. Bobbin Co.	Bobbin Mfg.										Thermostat out of order
27	7 25 a m	Tel.	Middle st.		Wm. Kittredge Est.	Simpson & Rowland	Grocers										Combustion of lamp black
27	3 55 p m	Still	Merrimack st.	Wood	J. Bernstein	Several	Dwelling										Rubbish
27	10 13 p m	24	Middlesex st.	Brick	W. H. Williams	W. H. Williams	Furniture	832 00	2,532 00	9,000 00	7,600 00	832 00	2,532 00				Unknown
27	10 13 p m	24	"	"		G. W. Luck	Dwelling	31 00		1,000 00		31 00					Same fire
27	10 13 p m	24	"	"		Otto S. Lielous	Tailor	49 05		350 00		49 05					"
27	10 13 p m	24	"	"		Mrs. B. J. Davis	Dwelling	10 00		700 00		10 00					Explosion
28	12 43 a m	37	Watson st.	Wood	A. C. Wheelock	Several		50 00		none							Rats' nest in partition
28	8 23 a m	Tel.	Middlesex st.	Brick	W. H. Williams	W. H. Williams	Furniture										Rekindled
28	4 05 p m	82	Howard st.	Wood	A. Wolfe	J. Kleck	Dwelling	50 00	27 75	4,000 00	500 00	50 00	27 75				Careless use of match
28	9 45 p m	Still	John st.	Marble	Five Cent Bank	Lowell Gas Lt. Co.	Office	49 00		39,754 00		49 00					Rubbish
28	11 18 p m	61	Lawrence st.	Wood	Water Head Mills	Water Head Mills	Mill										Combustion
29	4 45 a m	19	Charles st.	Brick	A. C. Wheelock	O. Rogers	Dwelling	17 00	20 00	1,350 00	200 00	17 00	20 00				

Schedule of all the Fires which Occurred in the City of Lowell during the Year ending December 31, 1910 — Continued

Date	Time	Signal	Recall	Location	Wood, Brick or Stone	Owned by	Occupied by	Occupied as	Amount of Damage		Amount of Insurance		Am't of Insurance Pd.		Cause of Fire
									Building	Contents	Building	Contents	Building	Contents	
Sept. 23	4:05 p m	63	4 14 p m	Railroad st.	Wood	Mrs. Y. Tabirsky	Several	Dwellings	\$40 00		\$5,000 00		\$40 00		Spark set roof chimney
24	12:30 p m	Aut.		Lakeview ave.	Brick	Tom Mahoney	Dump								Rags in chimney
24	6:20 p m	Sull		J. T. Stevens Est.	Brick	C. M. Dickey	Dump								Gasoline and matches
24	7:46 p m	Sull	6 10 p m	Mallion st.	Wood	Mrs. A. Donovan	Dwelling		21 40	\$100 00	1,250 00	none	21 40		Dump
20	6:18 p m	67		Lullian st.	"	Mrs. J. Leslie	Potato Chip Mfg.		50 00		none				Chimney
20	8:10 p m	Tel.		East Mainover st.	"	J. T. Mercer									Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		200 00	1,700 00	200 00	\$2,000 00	200 00	1,700 00	Sparks set R. R. ties
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Dwelling		25 00		1,000 00	25 00			Dump
20	9:12 p m	76	9 42 p m	"	"	Mrs. Ann Blackburn	Stable		25 00		1,000 00	25 00			D

* Out of the City.

	Loss	Insurance	Paid	Loss above Insurance	Valuation
Buildings	\$28,174 34	\$3,764,087 00	\$20,193 34	\$1,981 00	\$4,102,150 00
Contents	31,100 28	237,282 00	29,893 28	1,207 00	727,083 00
Total	\$59,274 62	\$4,021,069 00	\$50,086 62	\$3,188 00	\$4,829,233 00

Schedule of all the Reported Fires which Occurred in the City of Lowell during the Year ending December 31, 1910

Date	No.	Location	Wood, Brick or Stone	Owned by	Occupied by	Occupied as	Amount of Damage		Amount of Insurance		Am't of Insurance Pd.		Cause of Fire	Date	Signal	Location	Wood, Brick or Stone	Owned by	Occupied by	Occupied as	Amount of Damage		Amount of Insurance		Am't of Insurance Pd.		Cause of Fire
							Building	Contents	Building	Contents	Building	Contents									Building	Contents	Building	Contents	Building	Contents	
Jan. 1	311	Westfield at School st.	Wood	G. B. Smith	Dwelling		\$23 06	\$1,800 00	\$25 00			Old lamp explosion	July 4	311	Mr. Hope at	Wood	T. A. Gudge	T. A. Gudge	Dwelling		\$ 5 00	\$ 1,200 00	\$ 5 00		Fireracker		
1	312	Worcester at Ward st.	"	D. Bruce	"		15 09	500 00	100 00	15 00	8 50	Careless smoking	5	312	Moody at	"	J. W. Robinson	A. Choupinne	Auto		\$ 24 43	\$ 1,000 00	\$ 24 43		Gasoline caught fire		
2	313	Worcester at Ward st.	"	H. Benson	"		20 00	2,000 00	100 00	20 00	25 00	Use of match	6	313	Druck at	"	S. A. Robinson	S. A. Robinson	Dwelling		10 00	700 00	10 00		Children and matches		
3	314	Worcester at Ward st.	"	Ovide Levesque	"		25 50	5,000 00	500 00	25 50	25 50	Defective chimney	7	314	Watford at	"	Davis & Smith	Several	Auto		15 00	700 00	15 00		Gasoline caught fire		
4	315	Worcester at Ward st.	"	D. J. Murphy	"		10 00	8,000 00	1,000 00	10 00	25 50	Defective chimney	8	315	Boulevard at	"	Dr. P. Bronghe	Several	Auto		10 00	4 47	700 00	10 00	700 00	Unknown	
5	316	Worcester at Ward st.	"	M. L. Walker	"		20 00	5 00	2,000 00	20 00	20 00	Overheated stove	9	316	Dutton at	Wood	E. Mercer	Several	Dwelling		10 00	1,500 00	10 00		Gas stove set paper		
6	317	Worcester at Ward st.	"	J. L. Thompson	"		20 00	2,000 00	1,000 00	20 00	20 00	Overheated stove	10	317	Howard at	"	W. Myers	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
7	318	Worcester at Ward st.	"	W. H. Ryan	"		20 00	1,000 00	500 00	20 00	20 00	Overheated stove	11	318	Dutton at	"	E. Mercer	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
8	319	Worcester at Ward st.	"	W. B. Jones	"		20 00	1,000 00	500 00	20 00	20 00	Overheated stove	12	319	Dutton at	"	E. Mercer	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
9	320	Worcester at Ward st.	"	O. F. Allen	"		20 00	1,000 00	500 00	20 00	20 00	Overheated stove	13	320	Dutton at	"	E. Mercer	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
10	321	Worcester at Ward st.	"	E. M. Barrows East	"		1 50	12 50	1,000 00	2 00	12 50	Overheated stove	14	321	Dutton at	"	E. Mercer	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
11	322	Worcester at Ward st.	"	H. H. Benson	"		1 50	12 50	1,000 00	2 00	12 50	Overheated stove	15	322	Dutton at	"	E. Mercer	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
12	323	Worcester at Ward st.	"	A. H. Reed	"		14 50	15 75	1,400 1,000 00	14 50	12 50	Overheated stove	16	323	Dutton at	"	E. Mercer	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
13	324	Worcester at Ward st.	"	H. S. French	"		22 00	2,000 00	423 00	22 00	22 00	Overheated stove	17	324	Dutton at	"	E. Mercer	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
14	325	Worcester at Ward st.	"	T. J. O'Loughlin	"		22 00	2,000 00	423 00	22 00	22 00	Overheated stove	18	325	Dutton at	"	E. Mercer	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
15	326	Worcester at Ward st.	"	W. H. Ryan	"		22 00	2,000 00	423 00	22 00	22 00	Overheated stove	19	326	Dutton at	"	E. Mercer	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
16	327	Worcester at Ward st.	"	D. H. Kanyanjan	"		22 00	2,000 00	423 00	22 00	22 00	Overheated stove	20	327	Dutton at	"	E. Mercer	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
17	328	Worcester at Ward st.	"	J. L. Hunt	"		22 00	2,000 00	423 00	22 00	22 00	Overheated stove	21	328	Dutton at	"	E. Mercer	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
18	329	Worcester at Ward st.	"	W. B. Jones	"		22 00	2,000 00	423 00	22 00	22 00	Overheated stove	22	329	Dutton at	"	E. Mercer	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
19	330	Worcester at Ward st.	"	W. B. Jones	"		22 00	2,000 00	423 00	22 00	22 00	Overheated stove	23	330	Dutton at	"	E. Mercer	Max Schwesky	"		10 00	1,500 00	10 00		Gas stove set paper		
Feb. 4	331	Seventh at	Wood	A. F. Kidder	Dwelling		10 00	1,500 00	1,200 00	10 00	10 00	Gas jet set curtain	Sept. 8	331	Howard at	Wood	L. Lightman	L. Lightman	Dwelling		1,000 00	17 00	1,000 00	17 00	17 00	Candle set curtain	
7	332	Corban at	"	L. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	9	332	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
8	333	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	10	333	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
9	334	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	11	334	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
10	335	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	12	335	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
11	336	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	13	336	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
12	337	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	14	337	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
13	338	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	15	338	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
14	339	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	16	339	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
15	340	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	17	340	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
16	341	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	18	341	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
17	342	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	19	342	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
18	343	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	20	343	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
19	344	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	21	344	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
20	345	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	22	345	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
21	346	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	23	346	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
22	347	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	24	347	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
23	348	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	25	348	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
24	349	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	26	349	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
25	350	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	27	350	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
26	351	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	28	351	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
27	352	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	29	352	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
28	353	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	30	353	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
29	354	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	31	354	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
30	355	Corban at	"	J. J. Gowing	"		15 00	3,500 00	450 00	15 00	15 00	Gas jet set curtain	32	355	Bowdoin at	"	C. Sharf	Several	Auto		1,000 00	12 50	1,000 00	12 50	12 50	Gasoline caught fire	
Mar. 2	356	Bowditch at	Brick	Hamilton Corp.	Dwelling		8 00	800 00	800 00	8 00	8 00	Careless use of match	Oct. 7	356	Merrimack at	Wood	Z. A. Nernandin	Z. A. Nernandin	Dwelling		13 75	1,000 00	13 75	1,000 00	23 75	Children and matches	
3	357	Marshall at	Wood	C. Gorman	"		5 00	2,000 00	2,000 00	5 00	5 00	Careless use of match	8	357	Arthur Grant at	"	Arthur Grant	Several	Stores and offices		20 00	1,000 00	20 00	1,000 00	14 75	Gasoline smoking	
4	358	Marshall at	Wood	C. Gorman	"		5 00	2,000 00	2,000 00	5 00	5 00	Careless use of match	9	358	Arthur Grant at	"	Arthur Grant	Several	Stores and offices		20 00	1,000 00	20 00	1,000 00	14 75	Gasoline smoking	
5	359	Marshall at	Wood	C. Gorman	"		5 00	2,000 00	2,000 00	5 00	5 00	Careless use of match	10	359	Arthur Grant at	"	Arthur Grant	Several	Stores and offices		20 00	1,000 00	20 00	1,000 00	14 75	Gasoline smoking	
6	360	Marshall at	Wood	C. Gorman	"		5 00	2,000 00	2,000 00	5 00	5 00	Careless use of match	11	360	Arthur Grant at	"	Arthur Grant	Several	Stores and offices		20 00	1,000 00	20 00	1,000 00	14 75	Gasoline smoking	
7	361	Marshall at	Wood	C. Gorman	"		5 00	2,000 00	2,000 00	5 00	5 00	Careless use of match	12	361	Arthur Grant at	"	Arthur Grant	Several	Stores and offices		20 00	1,000 00	20 00	1,000 00	14 75	Gasoline smoking	
8	362	Marshall at	Wood	C. Gorman	"		5 00	2,000 00	2,000 00	5 00	5 00	Careless use of match	13	362	Arthur Grant at	"	Arthur Grant	Several	Stores and offices		20 00	1,000 00	20 00	1,000 00	14 75	Gasoline smoking	
9	363	Marshall at	Wood	C. Gorman	"		5 00	2,000 00	2,000 00	5 00	5 00	Careless use of match	14	363	Arthur Grant at	"	Arthur Grant	Several	Stores and offices		20 00	1,000 00	20 00	1,000 00	14 75	Gasoline smoking	
10	364	Marshall at	Wood	C. Gorman	"		5 00	2,000 00	2,000 00	5 00	5 00	Careless use of match</															

	Loss	Insurance	Valuation
Buildings	\$3,278.65	\$298,761.00	\$353,500.00
Contents	5,418.66	411,461.50	360,300.00
Total	\$8,695.31	\$710,252.50	\$713,800.00

Schedule of all the Fires which Occurred in the City of Lowell

Date	Time	Signal	Recall	Location	Wood, Brick or Stone	Owned by	Occupied by	Occupied as	Amount of Damage		Amount of Insurance		Am't of Insurance Pd.		Cause of Fire	D.	
									Building	Contents	Building	Contents	Building	Contents			
Sept. 23	4 05 p m	63	4 14 p m	Railroad st.	Wood	Mrs. F. Tabrisky	Several	Dwelling	\$40 00		\$5,000 00		\$40 00		Spark set roof	Nov	
24	12 50 p m	Tel.		Adams st.	Brick	Tom Mahoney		Dump							Chimney		
24	6 20 p m			Lakeview ave.	Brick	Locks and Canals		Hotel							Dump		
25	7 14 a m	Still		Central st.	Wood	J. T. Stevens Est.	C. M. Dickey	Hotel							Chimney		
26	7 56 p m	Tel.		Madison st.	Wood	Mrs. A. Donovan	Several	Dwelling							Spark set roof		
26	6 08 p m	67	6 19 p m	Ludlum st.	"	Mrs. J. Leslie	Mrs. J. Leslie		21 40	\$100 00	1,250 00	none	21 40		Careless use of match set trimmings		
26	9 10 p m	Tel.		East Meadow rd.	"	J. C. Mercier	J. C. Mercier	Potato Chip Mfg.	50 00		none				Fat caught fire		
26	9 12 p m	76	9 43 p m	Summer st.	"	Mrs. Ann Blackburn	M. Grosse	Stable	200 00	1,700 00	200 00	\$2,000 00	200 00	1,700 00	Same fire		
27	2 31 a m	19	2 57 a m	"	"	M. A. Cross	M. A. Cross	Dwelling	25 00		1,000 00		25 00		Unknown		
27	2 31 a m	19	2 57 a m	Union st.	"	A. C. Wheelock	Several		40 00		none				Explosion		
27	6 35 a m	Tel.		Middlesex st.	Brick	C. G. Glidden		Offices and bank							Rags in kettle on gas stove		
27	8 52 p m	125	9 00 p m	Market st.	Wood	L. C. Dodge Est.	John McCullough	Dwelling							Stove smoking		
27	11 26 p m	Tel.		High st.	"		John Dwyer	Stable	519 00	338 50	375 00	500 00	375 00	338 50	Unknown		
27	11 26 p m	Still		"	"					489 00		1,000 00		489 00	Same fire		
27	11 28 p m	14	12 17 a m	"	"			J. Murkland		150 00		200 00		150 00			
28	7 54 a m	53	8 01 a m	Central st.	Brick	E. Cawley	H. Garrity	Hotel							Stove smoking		
28	8 44 a m	125	8 55 a m	Jefferson st.	"	Greek Colony	Greek Colony	Church	90 00		50,000 00		90 00		Moulding candles		
28	3 57 p m	Tel.		Nesmith st.	Wood	Miss S. Costello		Auto							Mistake in telephoning		
28	6 05 p m	Still		Ennell st.	Brick	J. Risvert	Several	Dwelling	10 00		2,000 00		10 00		Careless use of match		
29	7 59 a m	77	8 06 a m	Prince st.	Brick	F. H. Brookings									Combustion of rags		
29	1 28 p m	Tel.		Tanner st.	Wood	Nat Parker		Grass							Grass		
29	1 30 p m	Still		Moody st.	Wood	D. J. Murphy	Several	Dwelling							Stove smoking		
29	3 00 p m			Middlesex st.	"	A. C. Wheelock									Careless use of match set rubbish		
29	7 14 p m	6	7 28 p m	School st.	"	Gas Co.	Unoccupied	Dwelling							smoking		
Oct. 1	3 51 p m	125	3 55 p m	Merrimack st.	Wood	D. J. Hart	D. J. Hart	Dwelling							Spark set roof		
2	10 51 a m	Tel.		Salem st.	"	P. Stack	Several								Hot ashes in barrel		
2	11 25 a m	"		Gorham st.	"	Northern Land Co.		Dump							Dump		
*2	12 31 p m	"		Dracut	Wood			Brush									
2	7 25 p m	"		Union st.	"	J. Mahoney Est.		Dwelling							Hot ashes in barrel		
4	2 10 p m	"		Off Market st.	"	Locks and Canals		Derrick							Spark set platform		
4	8 58 p m	Still		Middlesex st.	"	S. H. & S. Rostler	J. H. Shaw	Store							Defective stove pipe		
5	12 57 p m	Tel.		Plain st.	"	Wm. Evans									Peat bog		
5	6 19 p m	"		Llewellyn st.	"	Several									Grass		
5	6 21 p m	64	6 41 p m	"	"												
6	11 43 a m	Tel.		Woodward ave.	"										Brush		
6	2 45 p m	"		Seventh ave	"	C. A. Sherburne											
6	6 55 p m	"		Stackpole st.	"	Locks and Canals		Dump							Dump		
*7	12 30 a m	"		Tewksbury	"	F. B. Trull											
7	3 28 a m	185	3 52 a m	Westford st.	"	Tom Liegahas		Automobile							Auto gasoline caught fire		
7	9 22 a m	Tel.		Woodward ave.	Brick	Several									Brush		
7	8 50 p m	Still		Fayette st.	"	C. A. Stott		Dwelling							Meat on stove		
*9	2 10 a m	Tel.		Dracut	Brick												
10	2 14 p m	Aut.		Rogers st.	Brick	U. S. Bobbin Co.	U. S. Bobbin Co.	Bobbin Mfg.							System out of order		
12	9 44 a m	Still		Portland st.	"	D. J. Page									Brush		
12	11 40 a m	"		Merrimack st.	Wood	Mrs. C. B. Pierce	Several	Dwelling							Children and matches		
*12	1 30 p m	Tel.		Tewksbury	"												
12	3 03 p m	"		Off Rogers st.	"	Electric Light Co.		Poles							Children and matches		
12	3 06 p m	135	2 26 p m	"	"										Same fire		
12	5 00 p m	Tel.		Mammoth rd.	Wood	J. Fowler	J. Fowler	Dwelling							Wires grounded		
12	5 50 p m	"		West Meadow rd.	"	T. Varnum									Brush		
13	10 30 a m	67	10 41 a m	Hildreth st.	Wood	Nat Peabody	Nat Peabody	Dwelling							Spark set roof		
14	5 37 p m	9	5 47 p m	Salem st.	"	C. Roussin	Peter Tavonlaris	Fruit store	93 00	40 00	4,500 00	1,000 00	93 00	40 00	Awning set by gas lamp		
14	10 00 p m	38	10 19 p m	Court st.	"	B. Ready	Boys	Club room							Careless smoking		
17	12 57 p m	Still		Bowers st.	"	City		Dump							Dump		
17	2 07 p m	132	2 21 p m	Hampshire st.	Wood	John Wood	John Wood	Dwelling		30 25		400 00		30 25	Child and match		
17	2 17 p m	Tel.		Lung st.	"	F. Lawrence		Grass land							Grass		
17	4 26 p m	"		high st.	"	Syndicate		Dump							Dump		
17	11 34 p m	42	12 22 a m	Middlesex st.	Brick	E. Greenberg	H. Smith & Co.	Shoe shop	619 99	250 00	10,000 00	847 13	619 99	250 00	Unknown		
17	11 34 p m	42	12 22 a m	"	"	Mdx. Social Club		Club room		25 00		500 00		25 00			
18	1 11 a m	Tel.		Foster st.	Wood	W. E. Livingston	W. E. Livingston	Shed	15 00		none				Careless smoking		
18	12 30 p m	"		Moody st.	"	City		Tree									
19	1 32 a m	141	2 21 a m	Talbot st.	"	Mrs. S. Walker	A. J. Murkland	Dwelling	465 00	200 00	2,500 00	500 00	465 00	200 00	Combustion floor polish rags		
19	11 33 a m	24	11 47 a m	Appleton st.	Brick	Wm. Morse	Anne Olive								Spark set roof		
19	2 05 p m	Tel.		Boylston st.	"	F. B. Shedd		Brush land							Brush		
20	5 02 p m	"		Reed's court.	Wood	W. Reed	Several	Dwelling							Chimney		
21	11 04 p m	216	12 01 a m	Rogers st.	Brick	U. S. Bobbin Co.	U. S. Bobbin Co.	Bobbin Mfg.							Combustion		
21	11 08 p m	Aut.		"	"										Same fire		
*23	9 17 a m	Tel.		Tewksbury	Wood	C. I. Hood		Dwelling									
24	7 12 p m	Still		Central st.	Brick	Appleton Bank	Bank and Clothing Co.	Bank and clothing							Electric wires crossed		
24	10 06 a m	Tel.		Merrimack st.	Wood	Mrs. J. P. Jewett	F. J. Constantineau	Fish market							Overheated stove pipe		
26	5 50 p m	Still		Rear Middle st.	"	B. & M. R. R.		Freight car							Rubbish in car		
*27	2 30 a m	Tel.		Dracut	"	W. Collins		Dwelling									
27	5 20 p m	28	5 59 p m	Hall st.	"	P. Z. Hebert Est.	Mrs. P. Z. Hebert	Furniture	207 50	181 75	10,000 00	12,000 00	207 50	181 75	Careless use of match		
28	4 52 p m	132	4 57 p m	"	"										False alarm		
29	1 16 p m	Still		Coburn court	Wood	P. S. Coburn Est.	Several	Shed	225 00		1,800 00		225 00		Careless use of match		
29	1 18 p m	27	1 44 p m	"	"		Louis Peladeau			10 82		400 00		10 82	Same fire		
29	5 29 p m	42	5 37 p m	Middlesex st.	"	M. E. Shamus		Boothblack							Hot stove		
29	11 05 p m	Tel.		South Whipple st.	"	John Fay	Several	Dwelling							Asb barrel		
30	4 08 p m	"		Willie st.	"	Ingalls	Unknown	Stable							Combustion of manure		
30	4 40 p m	Still		West st.	"	Mechanics' Sav. Bank		Grass							Grass		
31	1 35 a m	37	1 45 a m	Kinsman st.	Wood	W. Ashworth	Several	Dwelling	161 00		2,000 00		161 00		Rats' nest in partition		
31	3 16 a m	42	3 55 a m	Middlesex st.	"	E. Greenberg	T. J. Fitzgerald	Pool room	675 00	63 00	10,000 00	1,000 00	675 00	63 00	Overheated boiler		
31	3 16 a m	42	3 55 a m	"	"		J. F. Mooney	Office		25 00		300 00		25 00	Same fire		
31	12 56 p m	Tel.		Gorham st.	Wood	Northern Land Co.		Grass land							Grass		
31	3 00 p m	Still		Congress st.	"	Father Rosa	Several	Dwelling							Chimney		
31	8 45 p m	84	8 54 p m	Westford st.	"										False alarm		
Nov. 1	11 07 a m	131	11 13 a m	Wall st.	Wood	Patrick Fay	Several	Dwelling							Fat on stove		
1	2 57 p m	Aut.		Rogers st.	Brick	U. S. Bobbin Co.	U. S. Bobbin Co.	Bobbin Mfg.							System out of order		
1	4 30 p m	Tel.		Perry st.	"	Am. Hide & Leath. Co.		Brush							Brush		
1	8 22 p m	125	8 32 p m	Market st.	Wood	R. G. Bartlett	Several	Dwelling							Stove smoking		
1	8 44 p m	Still		Smith st.	"	City									Tar kettle		
1	8 49 p m	Tel.		"	"												
2	8 53 a m	Aut.		Middle st.	Brick	J. M. G. Parker Est.	Several	Stores and offices							Wire broke		
2	12 27 p m	Tel.		Williams st.	Wood	D. Murphy Est.	"	Dwelling	10 00	25 00	2,500 00	none	10 00		Oil lamp		
2	6 18 p m	63	6 30 p m	Railroad st.	"	Mrs. T. Tabrisky				50 00					Child and candle careless use		
2	7 30 p m	338	7 45 p m	Quebec st.	"	N. Y., N. H. & H. R. R.	Railroad men	Shanty	50 00		none				Overheated stove		
3	2 15 p m	Tel.		Warren st.	Stone	Thos. Carruthers Est.	Mrs. Carruthers	Machine sbop	25 00						boiler		
4	12 45 p m	222		"	"										No school		
4	6 05 p m	222		"	"												
6	12 25 p m	Still		Manchester st.	Wood	Patrick Hunt	Patrick Hunt	Dwelling							Chimney		
8	3 45 p m	"		High st.	"	E. E. Hill	E. E. Hill								Steam escaping		
8	9 35 a m	48	9 59 p m	Walker st.	"	T. R. Cox	T. R. Cox	Stable	350 00	152 00	300 00	550 00	350 00	152 00	Hot ashes		
9	6 00 a m	Tel.		"	"	H. A. Worden				75 00		none			Rekindled		
10	7 25 a m	Still		Central st.	Brick	A. Bates	Tom Hoban	Hotel	45 00		7,000 00		45 00		Combustion of rags		
12	12 30 p m	"		Off Rogers st.	"	B. and M. R. R.		Grass land							Grass		
12	7 05 p m	75	7 20 p m	Woodcock st.	"	A. J. Blazon		Auto		25 00		none			Auto gasoline		
13	9 20 a m	Tel.		Starbird st.	Wood	G. C. Hatch	G. C. Hatch	Dwelling	7 5								

f Lowell during the Year ending December 31, 1910 — Continued

	Date	Time	Signal	Recall	Location	Wood, Lick or Stone	Owned by	Occupied by	Occupied as	Amount of Damage		Amount of Insurance		Am't of Insurance Pd.		Cause of Fire	
										Building	Contents	Building	Contents	Building	Contents		
mings	Nov. 18	10 45 a m	Tel.		West London st.	Wood	Mrs. M. J. Marren	Mrs. M. J. Marren	Dwelling		\$ 10 00					Rags in chimney	
	18	2 00 p m	"		Fourth st.	"	J. Leech Est.	Several	Stable				none			Children and matches	
	18	2 04 p m	"		High st.	"	Syndicate	John Swett	Dump							Dump	
	18	3 00 p m	"		Arch st.	Wood	M. Robbins	John Swett	Blacksmith							Chimney	
	18	4 35 p m	"		Stackpole st.	"	Locks and Canals	John Swett	Dump							Dump	
	18	6 25 p m	"		Alder st.	"	N. Y., N. H. & H. R. R.		Dump							Sparks set R. R. ties	
	19	5 20 p m	"		Quebec st.	"	Locks and Canals		Grass land							Dump	
	20	6 12 p m	"		East Mer'k st.	"	N. Y., N. H. & H. R. R.		Dump							Grass	
	21	10 50 a m	"		Maple st.	"	Locks and Canals	John McInerney	Dwelling	\$ 62 00	25 00	\$ 800 00	\$ 500 00	\$ 62 00	\$ 25 00	Dump	
	21	3 00 p m	37	3 03 p m	Kinsman st.	Wood	P. Maguire	John McInerney	Grass							Children and matches	
	23	2 53 p m	Tel.		Lincoln st.	"	Middlesex Corp. Bank	J. P. Robertson	Auto		10 00		none			Grass	
	24	7 27 p m	"		Andover st.	"	Locks and Canals		Dump							Gasolene caught fire	
	26	9 00 a m	"		First st.	"	Locks and Canals		Dump							Dump	
	26	9 50 a m	"		East Mer'k st.	"											
	26	12 04 p m	"		Middlesex st.	Brick	A. J. Califf	M. Wyman	Boarding house	34 00	15 00	9,000 00	1,200 00	34 00	15 00	Hot stove set clothes	
	26	7 43 p m	"		Bridge st.	"	Mass. Corp.	Mass. Corp.	Mill							Kettle of tallow	
	26	7 45 p m	131	8 00 p m		"										Same fire	
	26	8 22 p m	Tel.		Walker st.	Wood	Mrs. N. J. Rafter	Mrs. N. J. Rafter	Dwelling	39 90	27 50	2,500 00	1,000 00	39 90	27 50	Careless use of candle	
	26	11 55 p m	"		Boulevard	"	Dr. F. R. Mahony	Tim O'Connor	Auto		1,500 00		1,500 00		1,500 00	Gasolene caught fire	
	27	10 00 a m	"		Agawan st.	Wood	Tim O'Connor	Tim O'Connor	Dwelling							Chimney	
	27	1 36 p m	"		First st.	"	Locks and Canals		Grass land							Grass	
	27	2 49 p m	"		Hampstead st.	"	F. D. Russell		Brush land							Brush	
	27	2 50 p m	"		Humphrey st.	"	Unknown		Grass land							Grass	
	27	3 42 p m	"		Weed st.	"	Peter O'Neil		Brush land							Brush	
	27	4 45 p m	"		Rogers st.	"	City	Fort Hill Park	Grass land							Grass	
	27	6 00 p m	"		McAlvin ave.	"	Syndicate		"							"	
	27	6 15 p m	"		Pleasant st.	"	Unknown		"							"	
	28	6 06 p m	53	6 11 p m	Central st.	Brick	J. Meadowcroft Est.	John Pollard	Boarding house		20 00		none			Careless use of match set curtain	
Dec.	1	10 37 p m	72	10 48 p m	Middlesex st.	Wood	A. C. Wheelock	Several	Dwelling							Careless use of match set towel	
	1	11 01 p m	Tel.		Charles st.	"	C. H. McEvoy	Several	Brush land	63 50		1,000 00		63 50		Defective chimney	
	2	3 06 p m	"		Tanner st.	"	W. S. Watson		Dump							Brush	
	3	9 30 a m	"		First st.	"	Locks and Canals		Dump							Dump	
	3	11 28 a m	"		Fayette st.	Wood	D. J. Murphy	Several	Dwelling							Spark set roof	
	3	5 06 p m	Still		Tanner st.	"	W. S. Watson		Brush land							Brush	
	4	4 57 p m	225	5 05 p m	Dummer st.	Wood	Percy Parker	Several	Dwelling							Children and matches	
	4	12 45 p m	Aut.		Lincoln st.	"	W. S. Watson	Unoccupied	Mill							Water leak	
	5	12 45 a m	Still		Central st.	Brick	J. T. Stevens Est.	J. L. Chalifoux	Clothing store							Combustion	
	5	12 50 a m	Tel.			"										Same fire	
	5	10 23 a m	28	10 45 a m	Perkins st.	"	M. Duprez	A. Pepin	Dwelling	152 89	10 00	3,500 00	500 00	152 89	10 00	Children and matches	
	5	2 30 p m	Tel.		School st.	"	L. M. Jones	L. M. Jones								Hot ashes in barrel	
	5	5 06 p m	Still		Lincoln st.	"	Several		Grass land							Grass	
	5	6 12 p m	315	6 36 p m	Epping st.	"	E. A. Nutting	E. A. Nutting	Shed	40 35		1,200 00		40 35		Children and matches	
	6	5 15 a m	51	6 09 a m	Gorham st.	"	Thos. McKay	Several	Dwelling	1,000 65	25 00	2,500 00	none	1,000 65		Rats' nest	
	6	5 15 a m	51	6 09 a m	"	"	P. F. Brady		"	75 00		6,000 00		75 00		Explosion	
	6	5 15 a m	51	6 09 a m	"	"	Alice Donohue		"	35 00		2,000 00		35 00		Rekindled	
	6	8 05 a m	Tel.			"											
	6	10 25 a m	Still			"										Grass	
	6	1 25 p m	Tel.		Chelmsford st.	"	Several		Grass land							Chimney	
	6	1 36 p m	"		Plain st.	"											
	6	7 05 p m	Still		Kirk st.	Brick	W. Kelley Est.	Several	Dwelling							Overheated boiler set covering	
	6	9 28 p m	Tel.		Seventh st.	Wood	J. B. Bailey		"							Careless smoking or use of match	
	7	3 15 a m	"		White st.	"	G. Perrin		"							use of candle set table	
	8	3 10 p m	"		Butterfield st.	"	M. Hessian	M. Hessian	"	100 42		1,200 00		100 42		Auto	
	9	7 40 a m	"		Concord st.	"	John Breen	John Breen	"	55 10		1,250 00		55 10		Sparklets	
	9	1 19 p m	Still		Lawson st.	Wood	Philot & Shatz		Auto							Overheated fire place	
	10	12 25 a m	42	4 55 p m	Middlesex st.	Stone	R. D. Holt	A. Lafamme	Fruit store	205 00	198 90	7,960 00	7,000 00	205 00	198 90	Hot stove set wood	
	10	7 55 p m	Still		Andover st.	Wood	Dr. R. E. Bell	Dr. R. E. Bell	Dwelling	19 60		6,500 00		19 60		Careless smoking	
	10	11 45 p m	42	11 55 p m	Merrimack st.	"	J. Bernstein	Mrs. St. Onge	"		20 00		none			Rats' nest under	
	11	10 05 a m	Still		Middlesex st.	"	Thos. Joncas	James O'Brien	"	218 50	25 00	1,500 00		218 50		Same fire	
	11	10 07 a m	139	10 55 a m	Common st.	"	Agnes Owens	Mrs. Anderson	"		25 00					Auto	
	11	10 48 a m	Still		Middle st.	Brick	Wm. Kittredge Est.	A. B. Beharrell	Garage							Same fire	
	11	10 49 a m	Tel.			"										Water out of boiler	
	11	11 00 a m	"		Princeton st.	Wood	Mrs. G. L. Gardner	Mrs. Gardner	Dwelling							Overheated boiler	
	11	4 53 p m	52	5 22 p m	Moody st.	Brick	Oblate Fathers	Oblate Fathers	"	150 00	15 00	17,000 00	1,000 00	150 00	15 00	chimney	
	11	7 25 p m	Tel.		Pawtucket st.	Wood	A. Desmarais	A. Desmarais	"	1,009 00	255 00	2,500 00	500 00	1,009 00	255 00	Same fire	
	11	7 28 p m	162	8 21 p m		"										Dump	
	12	3 32 p m	Tel.		East Mer'k st.	"	Locks and Canals		Dump							Overheated chimney	
	13	2 35 a m	"		Gorham st.	Wood	Jas. Flynn	Jas. Flynn, Jr.	Dwelling	52 50	20 00	7,500 00	500 00	52 50	20 00	Water leak	
	13	9 20 p m	"		Central st.	Brick	Appleton Bank	Adams & Co.	Furniture							Chimney	
	14	9 10 a m	Still		Church st.	Wood	M. Moran	Several	Dwelling	12 90		1,500 00		16 00		Cigarette stub	
	14	12 18 p m	52	12 25 p m	Race st.	"	F. Rochette		"							Overheated stove	
	14	2 20 p m	Tel.		Bridge st.	Brick	G. B. White	Anthony Greenwood	Meat market	35 00		14,000 00		35 00		Grass	
	14	5 25 p m	"		Lincoln st.	"	Several		Grass land							Rubbish in barrel	
	15	11 58 a m	19	12 09 p m	Gorham st.	Wood	Ann Scollen	Several	Dwelling	25 00		1,250 00		25 00		Gasolene caught fire	
	15	9 40 p m	39	9 48 p m	Broadway st.	"	Tom Reynolds	Tom Reynolds	Lunch cart	20 00		none				Overheated chimney	
	16	12 55 a m	Tel.		Wall st.	"	Pat Fay	Several	Dwelling	60 00		3,000 00		60 00		Chimney	
	16	10 46 a m	47	10 43 a m	Andover st.	"	E. A. McQuade	E. A. McQuade	"							"	
	16	2 35 p m	Still			"	Davis & Sargent Est.	Several	"							"	
	16	3 15 p m	"		Lakeview ave.	"	J. L. Hampton	J. L. Hampton	"								

Schedule of all the Reported Fires which Occurred in the City

Date 1910	Signal	Location	Wood, Brick or Stone	Owned by	Occupied by	Occupied as	Amount of Damage		Amount of Insurance		Am't of Insurance Pd.		Cause of Fire	
							Building	Contents	Building	Contents	Building	Contents		
Jan. 1	Still	Westford st.	Wood	G. B. Smith	G. F. Dagget	Dwelling	\$25 00	\$ 5 00	\$1,800 00	\$ 700 00	\$25 00	\$ 5 00	Oil lamp explosion	July
1	"	School st.	"	D. Bruce	J. F. Morris	"	15 00	25 00	800 00	100 00	15 00	25 00	Careless smoking	
2	"	Ward st.	"	"	H. Bragon	"	"	20 00	"	700 00	"	20 00	" use of match	
3	"	"	"	"	Ovide Levasseur	"	"	25 50	"	500 00	"	25 50	" " " "	
4	"	Moody st.	"	D. J. Murphy	Several	"	10 00	"	8,000 00	"	10 00	"	Defective chimney	
8	"	Walker st.	"	M. L. Walker	M. L. Walker	"	20 00	5 00	2,000 00	1,000 00	20 00	5 00	Overheated stove	
10	"	Eighteenth st.	"	J. A. Thompson	J. A. Thompson	"	20 00	"	1,700 00	"	20 00	"	Hot coals set wood	
11	"	Linden st.	"	W. H. Ryan	Several	"	25 00	"	1,000 00	"	25 00	"	Unknown	
12	"	Appleton st.	"	W. B. Jones	E. Olney	"	"	10 00	"	500 00	"	10 00	Explosion	
14	"	Dutton st.	"	J. Roisvert	E. Vigeant	Hay store	18 50	7 50	900 00	700 00	18 50	7 50	Overheated stove set wood	
15	"	Westford st.	"	O. R. Atherton	Several	Dwelling	10 00	"	1,000 00	"	10 00	"	Water front of stove burst	
18	"	Walker st.	"	"	E. L. Youngman	"	"	36 25	"	500 00	"	36 25	Careless use of matches	
18	"	Pawtucket st.	"	E. M. Barrows Est.	M. A. Shattuck	"	7 50	12 50	4,000 00	2,000 00	7 50	12 50	"	
19	"	Burnside st.	"	L. H. Graves	W. H. Graves	"	12 00	15 75	1,400 00	1,000 00	12 00	15 75	Cleaning clothes with gasolene	
19	"	Nesmith st.	"	A. M. Reed	H. S. French	"	140 80	65 00	3,000 00	1,000 00	140 80	65 00	Gas jet set paper	Aug
20	"	South Whipple st.	"	"	T. J. O'Loughlin	"	"	22 00	"	423 00	"	22 00	Children and matches	
20	"	Central st.	"	"	Steven O'Hare	"	"	15 00	"	1,000 00	"	15 00	Careless smoking	
21	"	Stackpole st.	"	"	A. West	"	"	3 33	"	1,000 00	"	3 33	Unknown	
23	"	Sumner st.	"	D. M. Kavanjian	Several	"	25 00	"	4,000 00	"	25 00	"	"	
27	"	Church st.	"	J. B. Hunt	N. Mulholland	"	20 00	20 00	4,300 00	1,000 00	20 00	20 00	Defective chimney	
29	"	Branch st.	"	W. B. Jones Est.	Mrs. W. B. Jones	"	13 00	35 00	1,500 00	500 00	13 00	35 00	Gas jet set curtain	
30	"	West Third st.	"	Susan Moran	"	"	"	10 00	"	1,200 00	"	10 00	" wood	
Feb. 4	Still	Seventh st.	Wood	A. E. Kidder	A. E. Kidder	Dwelling	10 00	"	3,000 00	"	10 00	"	Gas jet set curtain	Sep
7	"	Gorham st.	"	"	L. J. Gowing	"	"	15 00	"	450 00	"	15 00	Careless use of match	
7	"	Common st.	"	Tom Fay Est.	Several	"	10 00	"	2,600 00	"	10 00	"	Gas jet set curtain	
8	"	Hall st.	"	Jas. Albert	Jas. Albert	Stable	"	106 00	"	5,000 00	"	106 00	Cigarette stub	
8	"	Varnum ave.	"	J. O. & L. Heinze	J. O. & L. Heinze	Dwelling	15 00	"	2,200 00	"	15 00	"	Careless use of match	
8	"	Beacon st.	"	E. J. Neale	E. J. Neale	"	"	15 00	"	2,000 00	"	15 00	Alcohol lamp upset	
12	"	Doane st.	"	E. L. Gray	E. L. Gray	"	10 00	9 00	2,000 00	700 00	10 00	9 00	Gas jet set curtain	
15	"	Varnay st.	"	T. F. Maguire	T. F. Maguire	"	"	5 00	1,000 00	"	5 00	"	Hot coals set wood	
15	"	Aiken st.	"	P. Hebert	P. Hebert	"	15 00	"	10,000 00	"	15 00	"	Children and matches	
17	"	Fourth st.	"	E. Black	C. Gardner	"	11 00	15 10	1,500 00	993 50	11 00	15 10	Gas jet set curtain	Oct
20	"	Rogers st.	"	Jas. Sullivan	Jas. Sullivan	"	"	5 00	"	800 00	"	5 00	Careless use of match	
28	"	Ward st.	"	E. Delisle	Several	"	25 00	"	3,000 00	"	25 00	"	Children and matches	
28	"	Stackpole st.	"	J. J. Harrington	"	"	10 00	7 70	1,500 00	500 00	10 00	7 70	Gas jet set curtain	
Mar. 2	Still	Bowditch st.	Brick	Hamilton Corp.	W. Bennett	Dwelling	"	8 00	"	600 00	"	8 00	Careless use of match	
9	"	Marsh st.	Wood	C. Gorman	C. Gorman	"	"	5 00	"	2,000 00	"	5 00	Overheated stove	
9	"	Ford st.	"	"	F. Vigeant	"	"	3 00	"	1,500 00	"	3 00	Careless use of match	
12	"	Aiken ave.	"	M. S. Maillet	M. S. Maillet	"	5 25	4 75	1,500 00	1,000 00	5 25	4 75	Gas jet set curtain	
16	"	Church st.	Brick	Church St. Garage	Church St. Garage	Garage	"	625 00	"	2,500 00	"	625 00	Gasolene explosion	
16	"	Mt. Washington st.	Wood	A. H. Halloran	A. H. Halloran	Dwelling	23 20	"	1,800 00	"	23 20	"	Careless use of match	
19	"	England st.	"	M. Crumney	Several	"	15 00	"	1,100 00	"	15 00	"	Children and matches	
23	"	Lawrence st.	"	Wamesit Power Co.	Waterhead Mills.	Mill	"	2,127 07	"	264,500 00	"	2,127 07	Electric wire set lint	
25	"	West Sixth st.	"	M. Lemkin	M. Lemkin	Dwelling	29 50	"	1,500 00	"	29 50	"	Unknown	
25	"	Howard st.	"	"	P. Snider	"	"	6 00	"	300 00	"	6 00	Candle set curtain	Nov
26	"	Middle st.	Brick	Mrs. G. McCarty	E. S. Kimball	Painter	30 00	15 00	16,000 00	700 00	30 00	15 00	Careless use of match	
27	"	Moody st.	Wood	"	Angeline Hotin	Dwelling	"	3 00	"	1,000 00	"	3 00	Gas jet set curtain	
29	"	Aiken ave.	"	"	Arthur Demers	"	"	20 00	"	1,500 00	"	20 00	Fumigating house	
31	"	Walker st.	"	A. H. Somes	A. H. Somes	"	"	10 00	"	2,000 00	"	10 00	Gas jet set curtain	
April 1	Still	Andover st.	Stone	Dr. R. E. Bell	Dr. R. E. Bell	Dwelling	40 00	"	4,000 00	"	40 00	"	Grass fire set wood	
6	"	White st.	Wood	"	F. H. Daigle	"	"	4 50	"	1,000 00	"	4 50	Children and matches	
7	"	Howard st.	"	I. Lightman	"	"	"	44 50	"	500 00	"	44 50	Candle set curtain	
8	"	Howard st.	"	F. Cohen	Several	"	20 00	"	1,000 00	"	20 00	"	Gas jet set curtain	
9	"	High st.	"	Mrs. L. E. Shepard	Several	"	15 00	"	1,200 00	"	15 00	"	Children and matches	
16	"	High st.	"	"	T. B. Hustwick	"	"	7 78	"	1,000 00	"	7 78	Careless use of match	
16	"	High st.	"	A. M. Sullivan	Several	"	5 00	"	3,000 00	"	5 00	"	Ash barrel	
17	"	Wilder st.	"	"	C. F. Garland	"	"	44 50	"	500 00	"	44 50	Chafing dish	
May 2	Still	Cross st.	Wood	"	V. Salvin	Dwelling	"	17 75	"	1,000 00	"	17 75	Children and matches	
5	"	Talbot st.	"	M. J. Potter	E. B. Conant	"	61 67	54 00	3,500 00	7,920 15	61 67	54 00	Careless use of match	
11	"	Iale st.	"	"	E. Neyman	"	"	25 00	"	600 00	"	25 00	Smoking in bed	
25	"	Pawtucket st.	"	E. H. Earl	E. H. Earl	"	10 00	16 00	4,000 00	1,200 00	10 00	16 00	Gas stove explosion	Dec
June 1	Still	Bridge st.	Wood	"	J. F. Allen	Stores and dwelling	"	3 00	"	1,000 00	"	3 00	Awning	
3	"	C st.	"	A. G. Grant	E. B. Fitzmons	Dwelling	17 50	65 25	1,000 00	1,000 00	17 50	65 25	Gas jet set draperies	
8	"	Perkins st.	"	G. W. Harris Est.	Several	"	20 00	"	10,000 00	"	20 00	"	Careless use of match	
11	"	Loring	"	"	M. T. Gorden	"	"	5 00	"	1,000 00	"	5 00	Hot stove set carpet	
12	"	Middlesex st.	"	"	P. A. Poissent	"	"	18 10	"	1,200 00	"	18 10	Smoking in bed	
14	"	Appleton st.	"	"	A. Saba	"	"	8 00	"	600 00	"	8 00	Unknown	
14	"	Abbot st.	"	"	E. A. Quinlan	"	"	13 40	"	500 00	"	13 40	Oil lamp	
16	"	Appleton st.	"	"	A. J. Norriss	"	"	5 00	"	1,000 00	"	5 00	Smoking in bed	
16	"	Worthen st.	Brick	O'Sullivan Bros.	E. F. Brady	Offices and stores	"	30 00	"	3,000 00	"	30 00	Careless use of match	
18	"	Cambridge st.	Wood	S. Renard	S. Renard	Dwelling	20 00	5 00	1,700 00	1,000 00	20 00	5 00	Lightning	
18	"	Bolton st.	"	G. Marchidon	G. Marchidon	"	135 00	5 00	1,500 00	500 00	135 00	5 00	"	
20	"	Nesmith st.	"	D. O. Swan	D. O. Swan	"	11 50	"	4,000 00	"	11 50	"	Overheated stove	
July 1	Still	Middlesex st.	Wood	L. E. Glidden	L. E. Glidden	Dwelling	71 00	"	8,000 00	"	71 00	"	Defective chimney	
1	"	Suffolk st.	"	D. R. Hill	D. R. Hill	"	"	8 50	"	2,000 00	"	8 50	Gas jet set curtain	
4	"	Middlesex st.	"	F. X. Dostaler	Several	"	5 00	"	1,200 00	"	5 00	"	Firecracker	

Buildings	Loss
Contents	\$3,278 65
	5,416 66
Total	\$8,695 31

City of Lowell during the Year ending December 31, 1910

Date 1910	Signal	Location	Wood, Brick or Stone	Owned by	Occupied by	Occupied as	Amount of Damage		Amount of Insurance		Am't of Insurance Pd.		Cause of Fire
							Building	Contents	Building	Contents	Building	Contents	
July 4	Still	Mt. Hope st.	Wood	T. A. Gudge	T. A. Gudge	Dwelling	\$ 5 00		\$ 1,200 00		\$ 5 00		Firecracker
4	"	Moody st.	"	J. W. Robinson	A. Champagne	"		\$ 24 43	\$ 1,000 00		\$ 24 43		" works
5	"	Clark road	"	"	J. W. Robinson	Auto		45 00	1,000 00		45 00		Gasolene caught fire
7	"	Dracont st.	"	Davis & Scribner	N. A. Boulais	Dwelling		10 00	700 00		10 00		Children and matches
8	"	Westford st.	"	A. G. Beharrell	Several	Auto	15 00		3,000 00		15 00		Unknown
8	"	Boulevard	"	Dr. P. Brunelle	Several	Auto		700 00	700 00		700 00		Gasolene caught fire
9	"	Moody st.	Wood	"	E. Mercier	Dwelling	10 00		2,000 00		10 00		Fire works
14	"	Dalton st.	"	"	Zoel Leclair	"		4 4	400 00		4 45		Gas stove set paper
17	"	West Bowers st.	"	"	Max Schwesky	"		11 60	1,000 00		11 60		Careless use of match
18	"	Howard st.	"	"	Several	"		10 00	500 00		10 00		Candle set table cover
26	"	Andrews st.	"	W. Myers	Several	"	10 00		1,500 00		10 00		Ash barrel
26	"	Dalton st.	"	F. Daigle	F. Daigle	"	5 00	7 00	3,000 00	700 00	5 00	7 00	Hot stove set clothes
26	"	Middlesex st.	"	A. Davis	A. Davis	"	10 00		2,000 00		10 00		Children and matches
28	"	Tolman ave.	"	J. J. Gaynor	J. J. Gaynor	"	20 00		1,500 00		20 00		Lightning
Aug. 3	Still	Gorham st.	Wood	C. Guthrie	C. Guthrie	Dwelling		15 00	2,000 00		15 00		Children and matches
4	"	Lawrence st.	"	W. H. Hodgson	Several	"	17 50		2,000 00		17 50		Lightning
6	"	Mt. Grove st.	"	"	D. J. Giroux	"		5 50	500 00		5 50		Careless use of match
10	"	Hurd st.	"	"	A. G. Norris	"		9 50	1,500 00		9 50		" " " "
12	"	Salem st.	"	"	K. Tavoularis	Fruit store		7 00	1,000 00		7 00		" " " "
16	"	Chelmsford st.	"	"	S. Wagner	Dwelling		25 00	300 00		25 00		Candle set clothes
18	"	Methuen st.	"	S. Beane	S. Beane	"	13 00		2,000 00		13 00		Careless use of match
26	"	Church st.	"	H. V. Daly	Several	"	20 00		3,500 00		20 00		" " " "
Sept. 8	Still	Howard.	Wood	C. Sharf	I. Lightman	Dwelling		17 00	500 00		17 00		Candle set curtain
9	"	Boulevard	"	Thos. Hoban	Thos. Hoban	Auto	1,000 00		1,000 00		1,000 00		Gasolene caught fire
9	"	Middlesex st.	Brick	"	Thos. Hoban	Hotel		12 50	5,000 00		12 50		Cigar stub
10	"	Shedd st.	Wood	"	Thos. Daley	Dwelling		22 50	600 00		22 50		Lamp set draperies
12	"	Westford st.	"	N. W. Wilson	Several	"	15 00		5,000 00		15 00		Gas heater
17	"	Durant st.	"	T. Delaney	T. Delaney	"	13 00		2,000 00		13 00		Unknown
29	"	Middlesex st.	"	H. Denault	Several	"	7 50	12 00	2,500 00	1,000 00	7 50	12 00	Oil lamp tipped over
30	"	West Third st.	"	"	Several	"	5 00		2,000 00		5 00		Cigar stub
Oct. 7	Still	Merrimack	Wood	Z. A. Normandin	Z. A. Normandin	Dwelling		23 75	1,000 00		23 75		Children and matches
7	"	Gershon ave.	"	Arthur Genest	Arthur Genest	"		14 75	1,000 00		14 75		Careless smoking
8	"	Central st.	Brick	J. T. Stevens Est.	R. G. Caisse	Stores and offices		20 00	6,750 00		20 00		Careless use of match
9	"	Worthing st.	Wood	Lowell Machine Shop	Bessie Doherty	Dwelling		10 00	500 00		800 00		Defective chimney
12	"	Nesmith st.	"	S. A. Costello	S. A. Green	"		20 00	1,500 00		20 00		Gas jet set curtain
12	"	Newhall st.	"	Mrs. N. Brennan	Mrs. N. Brennan	"	7 25		2,500 00		7 25		Cigar stub
12	"	Wentworth ave.	"	E. Derbysher	T. F. Garrity	"	12 50	16 00	2,500 00	2,500 00	12 50	16 00	Gas jet set curtain
15	"	Lee st.	"	L. T. Sanbourn	Onesime Dube	"		8 40	1,000 00		8 40		" " " "
15	"	Fisher st.	"	M. Poirier	M. Poirier	"	13 40		2,500 00		13 40		Lightning
17	"	Gorham st.	"	W. F. Harvey	W. F. Harvey	"	15 00		2,000 00		15 00		Careless use of match
28	"	Moody st.	"	L. P. Turcotte	L. P. Turcotte	"	25 00		4,500 00		25 00		" " " "
28	"	Lawrence st.	"	D. T. Finnegan Est.	L. A. Moriarty	"		5 54	400 00		5 54		Gas mantle falling on goods
31	"	Middlesex st.	"	F. M. Godbout	F. M. Godbout	"		18 00	300 00		18 00		Explosion
Nov. 1	Still	Lane st.	Wood	E. Greenberg	Several	Dwelling	25 00		2,500 00		25 00		Children and matches
4	"	Asl st.	"	A. P. Sawyer	H. D. Pickering	"	5 43	10 50	2,000 00	2,000 00	5 43	10 50	Gas jet set curtain
7	"	South Loring st.	"	W. E. Hatch	W. E. Hatch	"		7 00	800 00		7 00		" " " "
7	"	Westford st.	"	H. O'Keefe	F. G. Webber	"		15 00	1,000 00		15 00		Alcohol lamp tipped over
8	"	Andover st.	"	J. Lennon	Mrs. B. C. Barnes	"		5 00	1,500 00		5 00		Spark set clothing
9	"	Daly st.	"	M. Burnsteine	H. Snider	"	15 00	30 00	5,000 00	500 00	15 00	30 00	Careless use of match
10	"	Parkview ave.	"	Emile Fontaine	Emile Fontaine	"		4 50	500 00		4 50		Spark from stove
11	"	Mansur st.	"	F. A. Flather	F. A. Flather	"		45 00	10,000 00		45 00		Lamp set plant
12	"	Lakeview ave.	"	K. Tweed	K. Tweed	"		38 20	1,000 00		38 20		Careless smoking in bed
12	"	Mansur st.	"	W. Thissell	W. Thissell	"	5 10		1,300 00		5 10		Overheated stove pipe
17	"	Bartlett st.	Brick	St. John's Hospital	St. John's Hospital	Hospital	35 00	10 00	35,000 00	3,000 00	35 00	10 00	Cigar stub
21	"	Decatur st.	Wood	A. Archambeault	A. Archambeault	Auto		23 65	2,000 00		23 65		Gasolene caught fire
21	"	Summer st.	"	D. M. Kazanjian	Several	Dwelling	40 00		2,500 00		40 00		Spark set clothing
23	"	Merrimack st.	Brick	O'Sullivan Bros.	Dr. N. O. Provencher	Dentist		33 00	800 00		33 00		Cigarette stub
23	"	Ward st.	Wood	"	T. Robitaille	Store		12 55	500 00		12 55		Lamp tipped over
28	"	Branch st.	"	D. W. Parker	D. W. Parker	Dwelling	10 00	35 25	2,000 00	1,000 00	10 00	32 25	Gas iron set clothes
28	"	Ludlam st.	"	"	Mabel Manning	"		14 00	700 00		14 00		Oil lamp tipped over
Dec. 8	Still	Middlesex st.	Wood	R. D. Holt	A. Ledoux	Dwelling		10 00	1,050 00		10 00		Overheated boiler
11	"	School st.	"	D. Lane	D. Lane	"	25 00	22 00	4,000 00	800 00	25 00	22 00	Gas jet set curtain
14	"	Payton st.	"	A. Rousseau	A. Rousseau	"	2 00	17 79	300 00	500 00	2 00	17 79	Spark from stove
14	"	Moody st.	"	Oblate Fathers' Soc.	W. Desmarais	"		4 50	500 00		4 50		" " " "
15	"	Chelmsford st.	"	"	S. I. Butters	"		6 00	500 00		6 00		Oil stove
17	"	Middlesex st.	"	H. Ferguson	Several	"	15 00		4,000 00		15 00		Careless smoking in bed
17	"	By st.	"	B. F. Guyette	B. F. Guyette	"		1 40	600 00		1 40		Wax taper set curtain
17	"	E. Merrimack st.	"	M. J. Morrison	Several	"	10 00	3,991 00		10 00		20 00	Repairing water pipe
20	"	Gorham st.	"	Geo. Spence	Geo. Spence	"		20 00	4,000 00		20 00		Careless use of match
22	"	Highland ave.	"	J. Walsh Est.	Several	"	61 50		2,400 00		61 50		Unknown
23	"	Summer st.	"	Wm. Langley Est.	C. F. Carman	"	16 50	4 48	2,000 00	500 00	16 50	4 48	Gas jet set curtain
24	"	Dutton st.	Brick	F. C. Plunkett Est.	Cross Awning Co.	Stores and dwelling		5 00	1,350 00		5 00		Cigar stub
24	"	Central st.	Wood	John Nolan	Several	Dwelling	10 00		6,000 00		10 00		Gas leak
25	"	Hampshire st.	"	A. Frappier	"	"		15 00	1,500 00		15 00		Wood box behind stove
26	"	Grove st.	"	A. M. Paul	E. F. Cheney	"		5 00	500 00		5 00		Gas jet set curtain
30	"	Western ave.	"	G. L. Cady	I. E. Wotton	Laundry		25 00	4,000 00		25 00		Match in clothes
30	"	Howard st.	"	Jenne Orlovitz	S. Garson	Dwelling		5 00	500 00		5 00		Candle set table cover
31	"	"	"	Gas Co.	"	Lights in stores		21 11	18,000 00		21 11		Gas arc lights in stores destroyed

Insurance	Valuation
\$298,791 00	\$353,500 00
411,461 50	360,300 00

31	\$710,252 50	\$713,800 00
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In conclusion I wish to thank my Board of Engineers, officers and members of the Department for their promptness and efficiency in the performance of their duties. To the Mayor and City Council, Clerk, Auditor, Treasurer, Superintendents of the different departments, and all others who have in any way assisted me in the discharge of my duties, I extend my sincere thanks.

Respectfully submitted,

EDWARD S. HOSMER,

Chief of Fire Department.

FIRE DEPARTMENT

January 1, 1911

CHIEF ENGINEER

EDWARD S. HOSMER Office, Palmer St. Engine House
 Residence, 202 Westford Street

FIRST ASSISTANT ENGINEER

JAMES F. NORTON Residence, 22 Ames Street

ASSISTANT ENGINEERS

EDWARD MELOY 30 Fort Hill Avenue
CHARLES STACKPOLE. . . . 105 Liberty Street
CHAS. E. ALWAY 16 West Bowers Street

CHIEF'S DRIVER

H. B. SANDERS Palmer St. Engine House

FIRST ASSISTANT ENGINEER'S DRIVER

T. H. WELCH Hose 7 Hose House

TELEGRAPH OPERATOR

HENRY C. FERNALD . . . Palmer St. Engine House
TOM McCORMICK, Lineman

COMMITTEE ON FIRE DEPARTMENT

Aldermen Adams and Byam
Councilmen Achin, Killpartrick and Tracey

ENGINE COMPANY No. 1

TWELVE MEMBERS

HOUSE ON GORHAM STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
15	Captain	C. D. Foley	55	Permanent	June, 1879	Engine House
11	Lieutenant	T. W. Collins	53	Permanent	April, 1884	Engine House
1	Clerk	G. W. Lovett	60	Driver, Wagon	Dec., 1875	Engine House
119	Engineer	J. W. Jantzen	57	Permanent	Feb., 1884	Engine House
18	Driver	J. J. Lowney	43	Driver, Engine	July, 1892	Engine House
12	Hoseman	R. Oatley	50	Permanent	Dec., 1893	Engine House
13	Hoseman	J. O'Hare	46	Permanent	Jan., 1893	Engine House
14	Hoseman	P. Curtin	57	Moulder	May, 1874	43 Abbott St.
17	Hoseman	T. McNamara	67	Machinist	April, 1884	Engine House
10	Hoseman	W. H. Kirkpatrick	44	Machinist	Jan., 1897	Engine House
16	Hoseman	J. H. Gray	44	Contractor	Feb., 1899	23 Ellsworth St.
19	Hoseman	P. Sheehan	42	Baker	Dec., 1897	11 Lyon St.

ENGINE COMPANY No. 2

HOUSE ON BRANCH STREET

TWELVE MEMBERS

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
2	Captain . .	H. Boynton . .	59	Permanent . .	April, 1869	Engine House
21	Lieutenant . .	F. B. Akers . .	52	Permanent . .	Jan., 1878	Engine House
20	Clerk	W. H. Oke . . .	45	Driver, Wagon .	May, 1891	Engine House
29	Engineer . . .	H. R. Morrison .	51	Permanent . .	July, 1882	Engine House
90	Driver	F. Boynton . . .	48	Driver, Engine .	Dec., 1882	Engine House
24	Asst. Engineer .	A. F. Prescott . .	33	Permanent . .	June, 1899	Engine House
22	Hoseman . . .	C. F. Stackpole .	25	Permanent . .	Jan., 1905	Engine House
23	Hoseman . . .	F. H. Harris . . .	34	Tinsmith . . .	Aug., 1899	Engine House
27	Hoseman . . .	David Laferriere .	27	Clerk	Dec., 1909	496 School St.
28	Hoseman . . .	John J. Flynn . .	28	Clerk	Dec., 1909	31 Smith St.
26	Hoseman . . .	Wm. J. Lambert .	31	Electrician . .	May, 1910	536 School St.
25	Hoseman . . .	Geo. A. Crawford .	24	Machinist . . .	Dec., 1909	Engine House

ENGINE COMPANY No. 3

TWELVE MEMBERS

HOUSE ON PALMER STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
30	Captain . . .	F. Hoyt . . .	61	Permanent . . .	Aug., 1873	Engine House
31	Lieutenant . . .	O. A. Knapp . . .	47	Permanent . . .	July, 1889	Engine House
3	Clerk . . .	F. E. Turner . . .	47	Driver, Wagon . . .	July, 1892	Engine House
33	Engineer . . .	M. I. Collins . . .	56	Engineer . . .	April, 1888	Engine House
133	Driver . . .	B. C. Reed . . .	56	Driver, Engine . . .	Aug., 1885	Engine House
38	Hoseman . . .	G. T. Halstead . . .	60	Permanent . . .	Nov., 1883	Engine House
36	Asst. Engineer . . .	J. C. O'Neil . . .	37	Permanent . . .	Dec., 1904	Engine House
35	Hoseman . . .	L. P. Reed . . .	31	Permanent . . .	April, 1901	Engine House
37	Hoseman . . .	H. V. Greene . . .	29	Clerk . . .	Feb., 1910	549 Lakeview Ave.
34	Hoseman . . .	P. J. Connor . . .	29	Insurance Agent	Aug., 1910	506 Gorham St.
39	Hoseman . . .	Nat. Laundry . . .	33	Carpenter . . .	Aug., 1910	99 Read St.
32	Hoseman . . .	A. B. Strout . . .	31	Clerk . . .	June, 1905	91 Fourth St.
		F. E. Roark . . .	61		July, 1875	69 Fifth St.

ENGINE COMPANY No. 4

TWELVE MEMBERS

HOUSE ON HIGH STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
4	Captain . .	J. E. Burns . .	50	Permanent . .	Feb., 1882	Engine House
42	Lieutenant . .	J. E. Sullivan . .	59	Permanent . .	May, 1883	Engine House
47	Clerk	J. M. G. Burns . .	37	Driver, Wagon .	July, 1895	Engine House
41	Driver	J. J. Harrington .	61	Driver, Engine .	Nov., 1869	Engine House
134	Engineer . . .	J. D. Ismond . .	43	Permanent . .	July, 1892	Engine House
43	Hoseman . . .	W. F. Dolan . .	38	Permanent . .	Nov., 1894	Engine House
45	Hoseman . . .	P. J. Mooney . .	36	Permanent . .	Jan., 1902	Engine House
48	Asst. Engineer .	M. E. Eagan . .	45	Steam Engineer	Dec., 1898	113 Pleasant St.
44	Hoseman . . .	M. Connor . .	58	Plasterer . . .	Mar., 1883	73 Pleasant St.
46	Hoseman . . .	J. H. Tracey . .	38	Mattress Maker .	Sept., 1897	281 Concord St.
49	Hoseman . . .	Geo. J. Tracey . .	39	Leather Worker .	May, 1910	281 Concord St.
40	Hoseman . . .	P. J. Finnerty . .	39	Iron Smelter . .	July, 1903	32 Lawrence St.

ENGINE COMPANY No. 5

TWELVE MEMBERS

HOUSE ON MAMMOTH ROAD, PAWTUCKETVILLE

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
152	Captain . . .	E. Bartlett . . .	63	Permanent . . .	May, 1883	Engine House
52	Lieutenant . . .	G. F. Flint . . .	49	Permanent . . .	Aug., 1892	Engine House
5	Clerk . . .	R. W. Broadbent	43	Driver, Wagon . . .	Nov., 1891	Engine House
51	Engineer . . .	C. L. Brown . . .	56	Permanent . . .	Jan., 1893	Engine House
50	Driver . . .	S. S. Page . . .	62	Driver, Engine . . .	May, 1888	Engine House
56	Hoseman . . .	G. A. Campbell . . .	37	Permanent . . .	Oct., 1899	Engine House
54	Hoseman . . .	J. J. McManmon . . .	39	Permanent . . .	Jan., 1893	Engine House
53	Asst. Engineer . . .	J. P. Fowler . . .	61	Carpenter . . .	May, 1883	256 Mammoth Rd.
58	Hoseman . . .	J. J. Frazier . . .	54	Moulder . . .	June, 1892	54 Starbird St.
55	Hoseman . . .	E. F. Farrell . . .	35	Plumber . . .	Dec., 1898	12 Third Ave.
59	Hoseman . . .	E. J. P. Cunningham	28	Shoe Cutter . . .	Dec., 1909	109 Mammoth Rd.
57	Hoseman . . .	R. J. Hayes . . .	32	Teamster . . .	Jan., 1905	242 Mammoth Rd.

ENGINE COMPANY No. 6

TWELVE MEMBERS

HOUSE ON FLETCHER STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
68	Captain . . .	D. J. Hurley .	59	Permanent . .	May, 1879	Engine House
61	Lieutenant . .	T. H. Rogers .	59	Permanent . .	Dec., 1888	Engine House
6	Clerk . . .	J. A. Fletcher .	54	Driver, Wagon .	May, 1880	Engine House
66	Hoseman . . .	R. E. Burns .	45	Permanent . .	Dec., 1888	Engine House
62	Engineer . . .	F. G. Collins .	53	Permanent . .	Dec., 1889	Engine House
69	Asst. Engineer .	E. Perham . .	50	Permanent . .	Feb., 1890	Engine House
60	Driver . . .	S. R. Pendexter .	58	Driver, Engine .	June, 1892	Engine House
64	Hoseman . . .	E. Saunders . .	45	Baker . . .	Feb., 1890	Mt. Washington St.
65	Hoseman . . .	J. J. Murray .	57	Cabinet Maker .	July, 1885	Arlington St.
67	Hoseman . . .	E. A. Walsh . .	38	Plumber . . .	June, 1895	Mt. Vernon St.
79	Hoseman . . .	T. F. Maguire .	44	Clerk . . .	July, 1892	Butterfield St.
63	Hoseman . . .	Geo. H. McDermott	27	Machinist . .	June, 1910	1 Woodbine Pl.

HOSE COMPANY No. 7

HOUSE ON CENTRAL STREET

EIGHT MEMBERS

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
70	Captain . .	J. Sullivan . .	45	Permanent . .	July, 1892	Hose House
71	Hoseman . .	P. Laughlin . .	56	Permanent . .	Aug., 1888	Hose House
7	Clerk . .	T. J. Dwyer . .	47	Driver, Wagon .	Jan., 1893	Hose House
74	Hoseman . .	J. H. Shea . .	37	Permanent . .	Dec., 1899	Hose House
77	Hoseman . .	J. J. Donohoe . .	51	Permanent . .	Jan., 1893	Hose House
73	Hoseman . .	P. Emerson . .	52	Carpenter . .	Feb., 1883	102 Crosby St.
76	Hoseman . .	J. Moore . .	37	Electrician . .	Feb., 1898	10 Auburn St.
72	Hoseman . .	Wm. J. Lane . .	35	Clerk . .	Aug., 1910	540 Central St.

HOSE COMPANY No. 8

NINE MEMBERS

HOUSE ON MERRIMACK STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
86	Captain	D. H. Crowley	50	Permanent	Feb., 1890	Hose House
150	Lieutenant	B. J. Dunn	48	Permanent	Feb., 1890	Hose House
87	Hoseman	W. F. Tighe	48	Permanent	Sept., 1892	Hose House
88	Clerk	W. M. Barrett	33	Driver, Wagon	Aug., 1898	Hose House
89	Hoseman	C. Collins	40	Permanent	Aug., 1894	Hose House
136	Hoseman	J. F. Convery	57	Carpenter	Jan., 1893	36 Lagrange St.
153	Hoseman	T. F. Welch	55	Cabinet Maker	June, 1894	446 Fletcher St.
154	Hoseman	H. Carpentier	34	Shoe Cutter	Dec., 1909	67 W. Meadow Rd.
85	Hoseman	J. J. McCarthy	41	Plasterer	Jan., 1905	216 Mt. Hope St.

HOSE COMPANY No. 9

EIGHT MEMBERS

HOUSE ON LINCOLN STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
91	Captain . .	J. Baxter . .	52	Permanent . .	July, 1883	Hose House
92	Lieutenant . .	G. H. Chapman . .	55	Permanent . .	May, 1885	Hose House
93	Clerk . .	C. A. Rock . .	52	Driver, Wagon . .	May, 1893	Hose House
95	Hoseman . .	D. F. Conroy . .	38	Permanent . .	Jan., 1894	Hose House
98	Hoseman . .	P. F. Mooney . .	37	Permanent . .	Mar., 1905	Hose House
94	Hoseman . .	F. A. Kappler . .	53	Carpenter . .	May, 1893	121 London St.
96	Hoseman . .	W. H. Bamford . .	32	Plasterer . .	Jan., 1904	56 Main St.
97	Hoseman . .	C. L. Crowley . .	28	Moulder . .	May, 1905	436 Lincoln St.

HOSE COMPANY No. 10

HOUSE ON FOURTH STREET

NINE MEMBERS

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
160	Captain . .	C. F. Hemenway	61	Permanent . .	Sept., 1875	Hose House
162	Lieutenant . .	J. McCafferty .	48	Permanent . .	Nov., 1887	Hose House
161	Clerk . . .	A. E. Kidder .	55	Driver, Wagon .	Oct., 1887	Hose House
164	Hoseman . .	E. S. Barnes .	41	Permanent . .	Dec., 1894	Hose House
167	Hoseman . .	C. H. Cogswell .	34	Permanent . .	June, 1905	Hose House
166	Hoseman . .	D. Common . .	61	Carpenter . .	Mar., 1896	109 Beach St.
168	Hoseman . .	F. D. Mansur .	52	Carpenter . .	Oct., 1889	21 Third St.
165	Hoseman . .	C. F. Hoisington .	54	Tinsmith . .	Aug., 1897	68 Thirteenth St.
163	Hoseman . .	B. M. Simpson .	41	Stableman . .	May, 1901	Hose House

HOSE COMPANY No. 11

NINE MEMBERS

HOUSE ON LAWRENCE STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
200	Captain . . .	W. A. Dolan . . .	48	Permanent . . .	Jan., 1888	Hose House
201	Lieutenant . . .	E. Jennings . . .	53	Permanent . . .	Jan., 1893	Hose House
203	Clerk . . .	J. D. Finnegan . . .	45	Driver, Wagon . . .	Jan., 1893	Hose House
205	Hoseman . . .	J. Emerson . . .	48	Permanent . . .	July, 1889	Hose House
208	Hoseman . . .	W. J. Sullivan . . .	48	Shuttle Maker . . .	Nov., 1896	466 Lawrence St.
204	Hoseman . . .	P. B. Gray . . .	39	Carpenter . . .	June, 1901	71 Whipple St.
202	Hoseman . . .	J. E. Burns . . .	42	Expert . . .	Sept., 1897	14 Carter St.
207	Hoseman . . .	M. F. McNally . . .	36	Painter . . .	Sept., 1909	57 So. Whipple St.
206	Hoseman . . .	F. H. Crosby . . .	42	Plasterer . . .	May, 1900	111 Moore St.

HOSE COMPANY No. 12

HOUSE ON WEST SIXTH STREET

EIGHT MEMBERS

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
220	Captain . . .	H. A. Merrill .	49	Permanent .	June, 1884	Hose House
221	Lieutenant . .	C. E. Abare .	36	Permanent .	Sept., 1897	Hose House
222	Clerk . . .	G. S. Alcott .	28	Permanent .	June, 1902	Hose House
223	Hoseman . . .	J. D'Amour .	41	Permanent .	Mar., 1903	Hose House
224	Hoseman . . .	J. Bernier .	41	Permanent .	May, 1900	Hose House
225	Hoseman . . .	W. F. Eagan .	35	Carpenter .	Dec., 1909	69 Lilley Ave.
226	Hoseman . . .	J. E. Fontaine .	28	Laundryman .	Dec., 1909	619 Likeview Ave.
227	Hoseman . . .	E. Landry .	35	Clerk . . .	Dec., 1909	269 West Sixth St.

TRUCK COMPANY No. 1

TEN MEMBERS

HOUSE ON LAWRENCE STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
209	Captain .	T. Brown .	53	Permanent .	May, 1890	Truck House
210	Lieutenant .	T. Dwyer .	47	Permanent .	Sept., 1888	Truck House
211	Clerk .	W. J. Heelon .	48	Driver, Truck .	Mar., 1896	Truck House
213	Ladderman.	J. F. McGuinness	48	Permanent .	Jan., 1893	Truck House
216	Ladderman.	R. F. Maxwell .	33	Fish Dealer .	June, 1902	16 Carter Place
212	Ladderman.	F. J. Dunn .	28	Machinist .	June, 1909	930 Gorham St.
218	Ladderman.	C. J. Meehan .	47	Mattress Maker .	Aug., 1894	Truck House
215	Ladderman.	J. T. Doyle .	37	Clerk .	Jan., 1895	320 Thorndike St.
217	Ladderman.	J. H. Lannon .	40	Machinist .	Jan., 1895	12 Agawam St.
214	Ladderman.	M. J. O'Connor .	46	Clerk .	Jan., 1900	900 Gorham St.

TRUCK COMPANY No. 2, WITH CHEMICAL ENGINE ATTACHED

TWELVE MEMBERS

HOUSE ON WESTFORD STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
121	Captain . .	D. W. Hilliard .	59	Permanent . .	Aug., 1872	Truck House
120	Lieutenant .	G. W. Alcott .	57	Permanent . .	Oct., 1877	Truck House
130	Clerk . . .	G. A. Dickey .	61	Driver, Chemical	Nov., 1888	Truck House
132	Ladderman .	E. E. Smith .	56	Permanent . .	Jan., 1890	Truck House
131	Ladderman .	H. S. Gardner .	58	Permanent . .	May, 1874	Truck House
123	Ladderman .	W. S. Holt .	35	Permanent . .	April, 1898	Truck House
127	Ladderman .	H. W. Hilliard .	29	Permanent . .	Jan., 1905	Truck House
126	Driver . . .	Q. A. Foster .	52	Driver, Truck .	June, 1889	Truck House
128	Ladderman .	R. B. Joslyn .	37	Clerk . . .	April, 1898	94 Lane St.
122	Ladderman .	E. Kirwin .	61	Steam Fitter .	May, 1871	38 Royal St.
129	Ladderman .	F. E. Alcott .	23	Steam Fitter .	Dec., 1909	698 School St.
125	Ladderman .	H. A. Tanner .	26	Machinist . .	June, 1908	33 Dover St.

TRUCK COMPANY No. 3, WITH CHEMICAL ENGINE ATTACHED

THIRTEEN MEMBERS

HOUSE ON PALMER STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
110	Captain . . .	F. E. Fuller . . .	61	Permanent . . .	May, 1869	Truck House
141	1st Lieutenant . . .	H. F. Harris. . .	58	Permanent . . .	Nov., 1888	Truck House
143	2d Lieutenant . . .	E. H. Dearth . . .	47	Permanent . . .	Jan., 1893	Truck House
112	Clerk . . .	F. O. J. Townsend . . .	56	Driver, Truck . . .	May, 1886	Truck House
140	Ladderman. . .	W. T. Foss . . .	49	Permanent . . .	April, 1892	Truck House
113	Ladderman. . .	F. W. Simons . . .	59	Permanent . . .	Sept., 1872	Truck House
111	Ladderman. . .	R. Carland . . .	48	Permanent . . .	Oct., 1893	Truck House
117	Ladderman. . .	T. F. Saunders . . .	40	Permanent . . .	Sept., 1895	Truck House
118	Ladderman. . .	R. W. V. Sloan . . .	24	Permanent . . .	May, 1908	Truck House
116	Driver . . .	W. P. Maker . . .	45	Driver, Chemical . . .	Sept., 1888	Truck House
114	Ladderman. . .	W. N. Flagg . . .	64	Carpenter . . .	Feb., 1881	75 Whitney Ave.
142	Ladderman. . .	M. W. Wright . . .	39	Mason . . .	Jan., 1905	83 Union St.
115	Ladderman. . .	W. O. Lussier . . .	42	Blacksmith . . .	April, 1900	6 Salem St.

TRUCK COMPANY No. 4

TEN MEMBERS

HOUSE ON WEST SIXTH STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
100	Captain .	J. F. McKissock .	58	Permanent .	July, 1899	Truck House
101	Lieutenant .	J. W. Adams .	60	Permanent .	Aug., 1874	Truck House
102	Clerk .	G. E. Schofield .	44	Driver, Truck .	July, 1894	Truck House
103	Ladderman.	N. Bishop .	73	Permanent .	July, 1855	Truck House
105	Ladderman.	T. F. Conway .	42	Permanent .	July, 1891	Truck House
106	Ladderman.	P. H. O'Laughlin	49	Permanent .	July, 1893	Truck House
104	Ladderman.	P. F. Mahoney .	31	Permanent .	Aug., 1908	Truck House
107	Ladderman.	E. Lepine .	57	Roll Coverer .	Nov., 1894	593 Bridge St.
108	Ladderman.	H. T. Mangan .	41	Caterer .	Aug., 1897	20 Hildreth St.
109	Ladderman.	C. F. Cronin .	30	Oiler .	Dec., 1909	140 Avon St.

PROTECTIVE COMPANY No. 1

NINE MEMBERS

HOUSE ON WARREN STREET

Badge	Rank	Name	Age	Occupation	Joined Dept.	Residence
135	Captain . .	W. H. Halstead .	66	Permanent . .	May, 1864	Protective House
82	Lieutenant . .	J. W. Halstead .	62	Permanent . .	Jan., 1872	Protective House
8	Clerk . . .	J. J. Rinehardt .	38	Driver, Wagon .	Dec., 1902	Protective House
83	Patrolman . .	M. C. Rowell .	47	Permanent . .	April, 1894	Protective House
81	Patrolman . .	D. W. Russell .	57	Permanent . .	Jan., 1885	Protective House
80	Patrolman . .	J. F. Ambrose .	31	Permanent . .	Aug., 1908	Protective House
84	Patrolman . .	A. L. Maynard .	57	Permanent . .	Nov., 1884	Protective House
151	Patrolman . .	C. A. Bugbee .	50	Permanent . .	Nov., 1894	Protective House
78	Patrolman . .	H. L. Foster .	24	Permanent . .	Mar., 1905	Protective House

FIRE ALARM TELEGRAPH

Location—Engine House, Palmer Street

HENRY C. FERNALD	Operator
TOM McCORMICK	Lineman

Ten-Circuit Automatic Repeater with Storage Battery of 530
Cups.

Miles of Wire	110
Signal Boxes	144
Engineers' Gongs	8
Engine House Gongs	17
Indicators	18
Tape Register	1
Bell Strikers	12

Gong and Indicator combined at Police Station.

Gong in Pumping Station.

Gong on Merrimack Square.

Gong on Tower's Corner.

Gong at Northern Depot.

Gong corner Bridge and First Streets.

Gong corner Moody and Aiken Streets.

The strikers are located as follows: Palmer Street Engine House, Varnum School House, High Street Church, Court House, No. 1 Engine House, Franklin School House, Pawtucketville Engine House, No. 6 Engine House, Highland School House, Lawrence Street Engine House, Cornell Street School House, West Sixth Street Engine House.

TELEPHONE CIRCUIT

Complete Stations	.	.	.	.	.	.	.	.	.	21
Tap Bells (Extra)	.	.	.	.	.	.	.	.	.	28
Miles of Wire	.	.	.	.	.	.	.	.	.	44
Storage Battery of 150 Cups.										

The value of all property, as near as can be ascertained, in care of the Chief of this Department is \$154,000.

ANNUAL REPORT

OF THE

Superintendent of Street Lights

LOWELL, MASS.

FOR THE

Year Ending December 31,

1910



LOWELL, MASS.
COURIER-CITIZEN PRINTING CO.
1911

REPORT

LOWELL, January 1, 1911.

To the Mayor and the Board of Aldermen:

GENTLEMEN:—Herein is submitted the Annual Report of the Superintendent of Street Lights for the year ending December 31, 1910.

The lighting of the streets is all done by contract with a rebate for all lights not burning the designated time. In addition to the police, three permanent men from the fire department are detailed to look after the lights and see that they are kept in good order and giving the amount of light the city pays for.

The Board of Aldermen ordered the past year the location of forty (40) gas, fourteen (14) incandescent, and two (2) arc lights. At present there are fourteen hundred and thirty-three (1433) gas, five hundred and forty-five (545) incandescent, and five hundred and fifty-five (555) arc lights. In addition there are seventeen (17) gas lights owned by the different corporations, the city paying for the gas; also there are eight (8) arc lights on Fort Hill Park which burn four or five months each year. The gas lights are burning under the following contract with the Lowell Gas Light Company for five years from November 30, 1910.

CONTRACT

THIS AGREEMENT, made and entered into this 30th day of November, A. D. 1910, by and between the CITY OF LOWELL, in the County of Middlesex and State of Massachusetts, party of the first part, and the LOWELL GAS LIGHT COMPANY, a corporation duly established by law and doing business in the City of Lowell, State of Massachusetts, party of the second part.

WITNESSETH: That the said party of the second part for and in consideration of the covenants, articles and agreements hereinafter mentioned, on the part of the said party of the first part and its successors to be observed and kept, hereby agrees to and with the said party of the first part to place sixty Candle Power Improved Welsbach Street Lighting fixtures in street lanterns upon posts now standing, or which may hereafter be erected under this agreement, located along the lines of the gas mains of the party of the second part, at its own expense; furnish illuminant and mantles used in lighting; and provide men, residents of the City of Lowell, to light and extinguish the lamps and keep the lanterns clean and to light all such lamps during the continuance of this agreement, in accordance with the following specifications, for the term of five (5) years from the date hereof; provided, however, that if, prior to the expiration of two years from the date of this agreement, the "Impulse System," so-called, of automatically lighting and extinguishing gas street lamps has, in the reasonable judgment of both the Mayor and the Superintendent of Street Lamps of the party of the first part, become so developed and perfected as to render its adoption in the City of Lowell appropriate, suitable and desirable; and if, at least sixty days prior to the expiration of two years from the date of this agreement a contract duly executed by the party

of the first part is tendered party of the second part with the request that it execute same, such contract to be supplementary to this agreement, and a modification of it only in that it provides for the installation of said "Impulse System" in connection with the lighting by gas lamps of the streets of the party of the first part and for such reduction in the price thereafter to be paid by party of the first part to party of the second part under this agreement as shall reasonably have been decided by both said Mayor and said Superintendent to be equitable and fair to all parties concerned; and if, the above provisions and conditions being in all respects satisfied, the party of the second part fails, prior to the expiration of two years from the date of this contract, to execute and deliver such supplementary contract, or a fair equivalent thereof, then, and not otherwise, the party of the first part, acting by said Mayor and said Superintendent jointly, may, upon written notice to the party of the second part, rescind, cancel and annul this agreement at the expiration of two years from the date hereof.

The party of the second part shall furnish the Improved Welsbach Boulevard Lanterns, and keep the same in good repair, in which the said party of the second part shall place said improved fixtures for the Welsbach System of Street Lighting and street corner signs for corner lanterns, attaching said lanterns and fixtures to posts already erected and that may hereafter be erected, located along the lines of the gas mains of the said party of the second part.

The said party of the second part agrees to furnish and erect standard ornamental iron posts wherever necessary for additional lamps ordered along the lines of the gas mains of said party of the second part.

It is understood and agreed that all posts, lanterns and equipments furnished by the said party of the second part shall be and remain the property of the

said party of the second part at the expiration of this contract or any continuance thereof, after which it shall have a right to remove the same within a reasonable time.

The lamps to be lighted by the said party of the second part shall be lamps used in the streets of the City of Lowell, and not less than twelve hundred (1,200) in number, and as many more as may be required and ordered by said party of the first part; all such additional lamps to be furnished by the party of the second part on the same terms and at the same rate of compensation as hereinafter provided for, and to be located along the lines of the gas mains of said party of the second part.

The lamps shall be lighted every night during the year and shall burn from dusk until dawn, a total of not exceeding four thousand (4,000) hours per lamp in each year.

The party of the first part shall pay to the party of the second part at the rate of twenty-two dollars and seventy-five cents (\$22.75) per lamp, per year, for each and every lamp covered by the terms of this contract aforesaid, the same to be payable monthly as the service is performed.

The lanterns shall be cleaned by said party of the second part to the acceptance of the party of the first part, during the term of this contract.

The party of the second part expressly agrees that all men provided by it to light and extinguish said lamps and keep the lanterns clean shall, if newly employed therefor, be resident voters of the City of Lowell.

This agreement shall continue in force for the period as hereinbefore stated, subject to appropriations being made for street lighting purposes.

IN WITNESS WHEREOF, the said City of Lowell,

by its Superintendent of Street Lamps, duly authorized, with the approval of the Mayor of said City, and the said Lowell Gas Light Company, by its proper officer, have hereunto set their hands and seals, the day and year first above mentioned.

The forty new gas lights were located as follows: Acton, Aberdeen, Bolton, Bristol, Branch, Bricket Ave., Beaulieu, Carmine, Chamberlain, Concord, Carter Place, Commonwealth Ave., Chauncey Ave., Dover, Delmont Ave., Dodge, Fanning, East Merrimack, George, High Street Square, Hampstead, Inland, Litchfield Terrace, Merrill Ave., Pine, Rumford, Ross, Tucker, Shaw, School, Sprague Ave., Woburn, Walker, West Third, Wamesit, one each; Dayton, Harris Ave., two each.

The contract with the Lowell Electric Light Corp. expires September 1, 1912. The new incandescent lights are located as follows: Boylston, East Meadow Road, Maple, rear of 36 Middlesex Street, Tanner, two each; Lagrange Court, Pawtucket, West Meadow Road, Wilder, one each; the two arcs were located one on Liberty, the other on Myrtle Street. There were a number of relocations ordered, but on account of frost have not been done.

The following statement will show the appropriation and expenditures for the year 1910.

APPROPRIATION.

Appropriation	\$98,992.84
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EXPENDITURES.

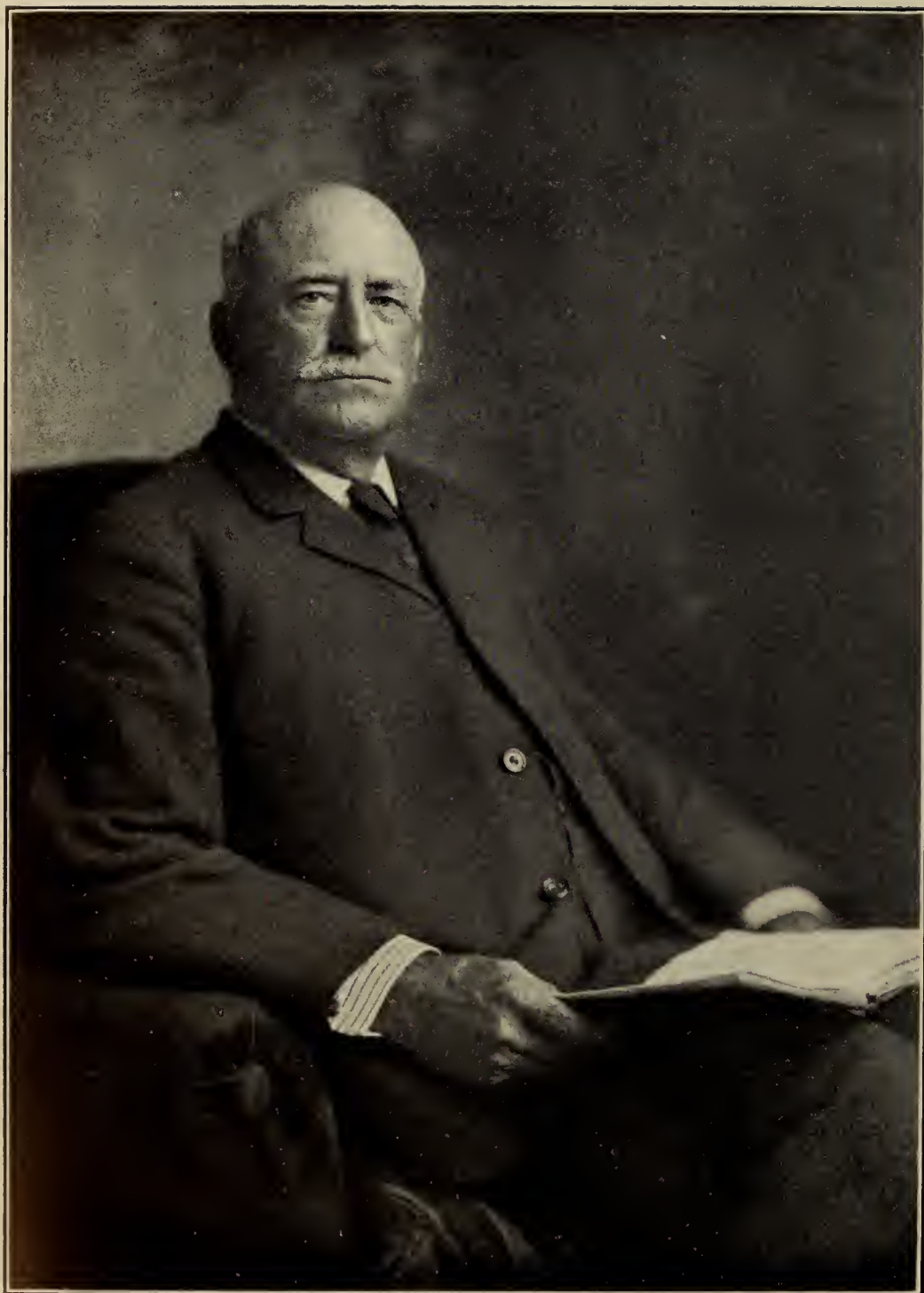
Lowell Electric Light Corp.	\$67,476.27
Lowell Gas Light Co. (Streets)	31,429.13
Lowell Gas Light Co. (Public Buildings)	19.35
Sundries	68.09
Total,	<hr/> \$98,992.84

The value of all property, as near as can be ascertained, in care of the Superintendent of this Department is \$10,000.00.

Respectfully submitted,

EDWARD S. HOSMER,

Superintendent.



MR. FREEMAN BALLARD SHEDD
DONOR OF SHEDD PLAYGROUND

Eighth Annual Report

OF THE BOARD
OF

Park Commissioners

OF THE

CITY OF LOWELL

FOR THE

Year Ending December 31, 1910



PRINTED BY
C. I. HOOD CO., LOWELL, MASS.

1911

Department of Public Parks

COMMISSIONERS' REPORT

*To His Honor the Mayor, and the City Council of the
City of Lowell, Massachusetts.*

As required by Chapter 28, Section 13 of the Revised Laws of Massachusetts, entitled "Public Parks, Playgrounds and the Public Domain," the Board of Park Commissioners of the City of Lowell have the honor to submit their eighth annual report.

Board of Park Commissioners

1910 - 1911

*JOHN J. PICKMAN, 1908-1913.

*JOHN E. DRURY, 1908-1912.

*PERCY PARKER, 1906-1911.

*THALLES P. HALL, 1910-1915.

*HARVEY B. GREENE, 1909-1914.

* Re-appointed.

OFFICERS

Chairman,
JOHN J. PICKMAN.

Secretary,
JOHN E. DRURY.

General Superintendent,
CHARLES A. WHITTET.

Consulting Engineer,
GEORGE BOWERS, City Engineer.

Park Areas and their Valuation

The Rogers Fort Hill Park,	34.40 Acres	\$150,000
The South Common,	22.48 "	200,000
The North Common,	11.39 "	100,000
Tyler Park,	1.81 "	8,000
Belvidere Park,	1.77 "	20,000
Mt. Vernon Park,	0.50 "	4,350
Varnum Park,	0.136 "	6,000
Monument Square,	0.092 "	15,000
Penniman Square,	0.051 "	450
Lincoln Square,	0.016 "	200
Hovey Square,	0.010 "	50
Mansur Square,	0.040 "	150
Water Works Square,	0.047 "	500
Coburn Square,	0.252 "	1,000
Hutchinson Square,	0.037 "	150
Lenox Square,	0.181 "	1,500
Franklin Square,	0.058 "	1,500
Princeton Square,	0.028 "	150
Middlesex Square,	0.034 "	200
Lincoln Playground,	1.525 "	6,000
Fayette St., Playground,	0.170 "	2,000
Varnum Ave., River-bank,	0.456 "	1,500
Colonial Ave., River-bank,	3.50 "	2,000
Glacial Oval,		100
City Hall and Memorial Grounds,	0.50 "	65,700
Lincoln School Grounds,	1.02 "	4,445
Highland School Grounds,	1.24 "	5,392
Greenhalge School Grounds,	2.30 "	10,000
Moody School Grounds,	1.18 "	7,684
Riverside School Grounds,	1.05 "	2,281
Shedd Playground,	56.00 "	50,000
Parker-Spalding Square,	0.043 "	
Lucy, Larcom Park,	0.05 "	21,970
<hr/>		
Total	142.322 Acres	\$688,272



SCENE AT SKATING POND IN SHEDD PLAYGROUND

Report of the Park Commission

For the Year 1910

It is possible to use the parks, playgrounds, and school buildings during the summer season for a common purpose. The sessions of the public schools close in the month of June in each year and do not begin until the month of September. During this long vacation hundreds of children remain at home having little or no employment, and in many instances passing their time in idleness. They do not go into the country nor to the seashore, nor do they read or study at their homes. Their spare time ought not to be permitted to go to waste; the opportunity should be afforded at least to utilize some part of it for their enjoyment and for their mental and physical improvement. The means should be afforded to have the parks and playgrounds kept under constant police supervision and protection during the summer vacation, that drunken and disorderly persons may not be permitted to interfere with their legitimate use. The school buildings near the parks and in the congested districts should be equipped with shower baths for use at reasonable hours, under proper regulation and control. The use of the basement of the Eliot School Building for the past season has demonstrated the fact that these buildings may be made use of for such

purpose to great advantage. Hundreds of children daily made use of the shower baths during the season. The school buildings could be opened in the forenoon and instruction given in industrial work or in ordinary school work. The attendance need not be compulsory, but voluntary; the opportunity would be given thereby for the pupils to learn some useful work and to keep them profitably engaged when otherwise they would be idle. In some of the cities of the country the experiment of half day schools during the summer vacation has been tried with excellent results. The average child in this city has altogether too brief a course of attendance in the public schools, under the existing conditions.

PLAYGROUNDS.

This season there were three playgrounds in active operation from July third to September first: on the South Common, the North Common, and on Aiken Street. The attendance at all of these playgrounds was very large during the season. The interest of the children in the industrial work and in organized play was maintained throughout the season, due largely to the intelligent, persistent, and sympathetic work of the supervisors in charge. The industrial training of the boys and girls was particularly effective, serving the useful purpose to vary the exercises on the playgrounds. This season the playground movement was very much aided by the interest and co-operation of the Middlesex Women's Club and the College Club, notably by means of money raised through their joint efforts, the proceeds of an entertainment given under their auspices, whereby it was made possible to obtain the services of several supervisors, and to establish two local playgrounds in thickly settled districts at some distance from the Commons, one being located on Paige Street and the other on Fayette Street. Miss Elizabeth C. Kennedy, Miss Mabel A. Met-

calf and Mrs. Mabel F. Lambert were unremitting in their efforts to aid in the playground movement. Mr. Arthur K. Whitcomb, the superintendent of schools, and members of the School Committee rendered valuable service in connection with the use of the school buildings near the South Common and near the North Common in conjunction with the playgrounds. The experience of this season has made it certain that to get the best results from the playgrounds it is necessary that there should be a large number of efficient supervisors, that their work may be subdivided, and the number of pupils to each limited in number. To insure harmony and unity in the highest degree essential to secure the best results, the chief supervisor should be vested with full authority to deal with the supervisors under him, and to have sole direction of the work on each of the playgrounds. It is essential that he should have the earnest aid and co-operation of all of his assistants. To accomplish this he must be resourceful and tactful, winning or commanding ready obedience from all of the instructors.

The City of Lowell is singularly fitted for playground work, there are so many children who remain in the city during the long vacation, many of them living near the Commons where the playgrounds have been established. To maintain a high standard of excellence in this branch of the work of the Commission an increase of the appropriation for playgrounds is necessary. There is no assurance that outside aid will be furnished in the future sufficient in amount to employ the supervisors and to furnish the appliances that were thereby obtained this year to supplement the appropriation made by the committee. The reports of the supervisors accompanying this report contain many suggestions of value that should receive the careful consideration of the Council.

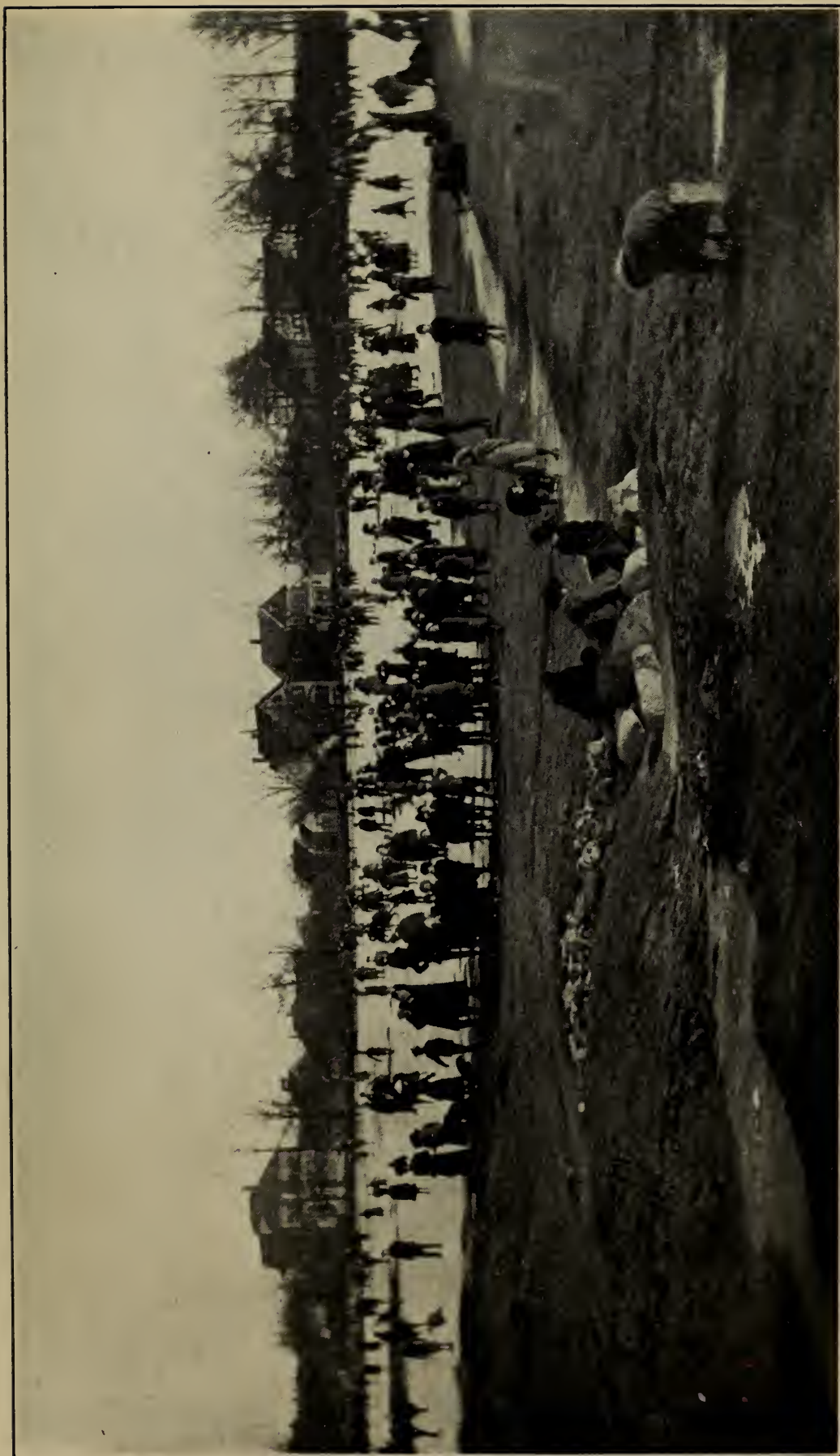
NEW PARKS.

This season has been notable by reason of the splendid gift to the City made by Mr. Freeman Ballard Shedd of about fifty acres of land situated on the north-easterly side of Knapp Avenue in Belvidere. A plan of the land has been prepared by Ernest W. Bowditch, the landscape engineer, that shows the possibility of making the combination of a park and a playground that would be second to none of its size in the country.

An appropriation of ten thousand dollars recently made by the City Council will be expended, if possible, this season to clear the land in part and to build a roadway from the entrance and to put into condition for skating and coasting the land available for such purposes. It is the intention of the Commission as means are afforded to make this large tract of land the recreation grounds of the City, not for a ward or a locality, but for the whole city, with the view that there may be easy access thereto by the street railway, and that the grounds may be laid out in such a way that the youth of the City may have an opportunity to engage in all sorts of athletic sports and exercises. It is the duty of the City Council to provide means from time to time sufficient in amount to make it possible within ten years to give the public a park and playground that will have few equals outside of Boston.

Hannah M. Spalding has given a tract of land to the City for a park situated at the junction of Crescent, Plain and Parker Streets, that contains about 1875 square feet of land.

In this connection, it may be stated that there are several tracts of land admirably adapted for park purposes that can be purchased or leased upon advantageous terms now if the City Council deems it advisable to increase the number of parks and playgrounds in the City.



SKATING POND IN SHEDD PLAYGROUND

The Commission especially invites your consideration of the tract of land bordering on the Merrimack River, on the southerly side, that extends from the land of John Follis on Pawtucket Street to Black Brook. This tract of land would make a fine water park, as it is situated to command a fine view of the River, and would make attractive the southerly side of the River as the Boulevard has made attractive the northerly bank of the River.

TREES.

The tree pests are increasing in variety, if not in number. In addition to the brown tail moth that has long infested this region there are now the elm-leaf beetle, the maple tree louse, tussock moth, leopard moth, gypsy moth and the borers.

Last year a spraying machine was purchased by the Commission that did effective service during the season when it could be used to advantage. It will be necessary to purchase another spraying machine to aid in carrying on the work of destroying these pests, work that must be done if the trees are to be saved from destruction. A large number of dead trees were removed, and a good deal of time was given to the trimming of the trees. The City has a great many fine trees in its streets and commons, and every effort should be made to preserve them and to keep them in good condition. The accident on the South Common by the falling of a limb from one of the trees shows the necessity of a careful and systematic inspection of the trees in all parts of the City with the view to the removal of dead or decaying branches, and to the removal of dead or decaying trees.

During the season sixty thousand gypsy moths were destroyed, and three tons of brown tail moths were removed from the trees.

BILLBOARDS.

Some of the corporations in the City have removed billboards owned or controlled by them, thereby aiding materially in the work of removing unsightly signs and cheap pictorial advertising. To accomplish substantial results in this respect it will be necessary for the General Court of the Commonwealth to pass an Act relative to the subject broad enough in its provisions to enable substantial results to be obtained, and so framed as to be held valid by the Courts.

LUCY LARCOM PARK.

The land on the easterly bank of the canal on Anne Street, upon recommendation of the City Council, has been named Lucy Larcom Park. The name of Lucy Larcom is an honorable name among women in the annals of the early history of the City, and may fittingly be associated with a breathing place for its citizens near the mills and near to the dwelling places of the men and women who labor in them. This land has been sown with grass seed, and shrubbery will be planted in it next spring.

CONCLUSION.

The City has been fortunate in the recent gifts to it of land for park purposes. There is an awakening of public interest in a department of the City that was at one time regarded as a show department. There is a growing conviction on the part of the citizens that the parks and playgrounds have a more practical purpose than to be display grounds merely or places for recreation. Under proper conditions they may serve the practical purpose of conserving the public health. There is no better means to keep well or to restore health than is afforded by fresh air and moderate exercise. The City Council has a duty to perform to keep these health places in proper condition for the public use, that they may be

safe and convenient at all reasonable times during the season that they are in use.

The superintendent has been intelligent and energetic in the discharge of his duties. The public and the Commission are under obligation to His Honor the Mayor and to the City Engineer and his assistants for their earnest co-operation and intelligent efforts in the maintenance and improvement of the parks and playgrounds in the City. The Superintendent of Police is especially deserving of the thanks of the Commission for his aid in maintaining order on the Commons and Playgrounds during the season.

The amount of the appropriation for parks for the current year was \$14,000.00

The amount expended was \$14,000.00.

The amount of the appropriation for playgrounds was \$1500.00.

The amount expended was \$1500.00.

The amount of the appropriation for trees was \$800.00.

The amount expended was \$800.00.

Respectfully submitted,

JOHN J. PICKMAN

JOHN E. DRURY

PERCY PARKER

THALLES P. HALL

HARVEY B. GREENE

Financial Report

LOWELL, MASS., December 31, 1910.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASSACHUSETTS.

Gentlemen:—

The Board of Park Commissioners has the honor to submit herewith the Eighth Annual Report of the Park Department of the City for the fiscal year ending December 31, 1910. In presenting to you this report we have given a statement of the receipts and expenditures for the fiscal year, the financial condition of the several appropriations, the Superintendent's report to this department of the work and labor done in the Parks and Commons of this city.

Appropriation for labor,	\$10,000.00
Receipts for labor,	37.65
	—————
Total appropriation for labor,	\$10,037.65
Expended for labor,	10,037.65
Appropriation for other expenses	\$ 4,000.00
	—————
Receipts,	141.00
Total for other expenses.....	\$ 4,141.00
Expended for other expenses,	4,141.00
Balance,	\$ 0,000.00

We received from the rental of lots on the South Common on July 4th the sum of \$1087.00, which was paid into the General Treasury Fund of the City.

MAINTENANCE

NAME

LABOR

MATERIALS

LABOR

MATERIALS

TOTAL

North Common	\$ 912.30	\$ 21.84	\$ 148.49	\$142.87	\$1,225.50
South Common	1,015.44	48.44			1,063.88
Fort Hill Park	2,265.43	313.08	1,460.72	339.96	4,379.19
Fort Hill Park, West Side			1,146.95	39.60	1,186.55
Belvidere Park	93.58	16.98			110.56
Tyler Park	107.82	10.04	2.00	38.15	158.01
Mt. Vernon Park	38.13	5.00			43.13
Monument Square	43.87	5.00			48.87
Lincoln Square	2.26				2.26
Varnum Park	15.02	11.86	2.25		29.13
Penniman Park	8.32	8.03			16.35
Water Works Square	7.54				43.89
Shedd Playground			23.94	12.41	234.34
Hovey Square	6.29	3.85			10.14
Mansur Square	8.72	10.20	234.34		18.92
Coburn Park					225.37
Lenox Square	20.86		186.32	39.05	151.63
Franklin Square			71.95	58.82	263.97
Princeton Square	5.29		73.97	190.00	5.29
Middlesex Square	6.34				6.34
Lincoln Playground	30.41				598.96
Little Canada Playground	3.68	205.25	239.88	123.42	3.68
South Common Playground	3.67				3.67

MAINTENANCE

NAME	LABOR	MATERIALS	LABOR	MATERIALS	TOTAL
Warrum Avenue River-bank	17.59	5.00			22.59
Colonial Avenue River-bank	47.14	5.00			52.14
City Hall and Memorial Grounds	123.85	11.69			135.54
Lenox Street Stable	141.38	1,353.29	44.89	105.64	1,645.20
Workshop	76.85	312.66			389.51
Supplies		256.74			256.74
Office Expenses	1,400.17	447.13			1,847.30
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$6,401.95	\$3,051.08	\$3,635.70	\$1,089.92	\$14,178.65

BALANCE SHEET, DECEMBER 31, 1910.

Dr.		Cr.	
North Common,	\$1,225.50	Appropriations,	\$14,000.00
South Common,	1,063.88	Receipts,	178.65
Fort Hill Park,	4,379.19		
Fort Hill Park, West Side,	1,186.55		
Belvidere Park,	110.56		
Tyler Park,	158.01		
Mt. Vernon Park,	43.13		
Monument Square,	48.87		
Lincoln Square,	2.26		
Varnum Park,	29.13		
Penniman Park,	16.35		
Water Works Square,	43.89		
Shedd Playground,	234.34		
Hovey Square,	10.14		
Mansur Square,	18.92		
Coburn Square,	225.37		
Lenox Square,	151.63		
Franklin Square,	263.97		
Princeton Square,	5.29		
Middlesex Square,	6.34		
Lincoln Playground,	598.96		
Little Canada Playground,	3.68		
South Common Playground,	3.67		
Varnum Ave. River-bank,	22.59		
Colonial Ave. River-bank,	52.14		
City Hall & Memorial Grounds,	135.54		
Lenox Street Stable,	1,645.20		
Workshop,	389.51		
Supplies,	256.74		
Superintendent's Salary and Office Expenses,	1,847.30		
	-----		-----
	\$14,178.65		\$14,178.65

TO WHOM AND FOR WHAT MONEY WAS PAID OUT DURING THE YEAR.

JANUARY.

To Whom	For What	Amount
Suffolk Engraving and Electro- typing Co.	half-tones	\$37.80
John J. Donnelly	shoeing	8.65
Nicholas G. Norcross	insurance	57.60
American Express Co.	express	.25
C. B. Coburn Co.	paint	3.00
Bartlett & Dow	hardware	5.55
New Eng. Tel. & Tel. Co.	telephone	3.13
Donovan Harness Co.	oil	1.00
Thomas Kelley	manure	14.50
		— — —
		\$131.48

FEBRUARY.

To Whom	For What	Amount
Davis Printing Co.	printing	\$19.00
American City Publishing Co.	subscription	1.00
Donovan Harness Co.	repairs	2.05
John J. Donnelly	shoeing	9.65
Sampson & Murdock Co.	directory	3.00
R. C. Paradis	typewriter ribbon	.75
G. M. Foster	bran	3.20
New Eng. Tel. & Tel. Co.	telephone	3.13
The Lowell Electric Light Corp.	light	11.17
The Lawler Printing Co.	printing reports	107.70
F. D. Emerson	manure	18.00
G. C. Prince & Son, Inc.	office supplies	.90
Fred A. Fox, Est.	hay	60.48
C. B. Coburn Co.	dryer	.70
		— — —
		\$240.73

MARCH.

To Whom	For What	Amount
Edward Simpson	filling	\$205.25
G. C. Prince & Son, Inc.	office supplies	24.65
John E. Foster	hay	54.81

To Whom	For What	Amount
T. J. McDonald	oats and straw	89.94
Dumas & Company	binding books	7.50
John J. Donnelly	shoeing	9.55
Dr. W. A. Sherman	professional services	2.00
F. M. Bill Co.	salt	1.20
The Lowell Electric Light Corp.	light	1.00
Donovan Harness Co.	repairs	3.75
New Eng. Tel. & Tel. Co.	telephone	3.13
		— — —
		\$402.78

APRIL.

To Whom	For What	Amount
Elliot Nursery Co.	shrubs	\$36.32
Bartlett & Dow	lawn mowers and tools	189.17
Donovan Harness Co.	stable supplies	15.15
C. H. Hanson & Co., Inc.	horse hire	3.00
John J. Donnelly	shoeing	11.55
New York & Boston Despatch Express Co.	express	2.10
The Lowell Electric Light Corp.	light	.47
Engineer's Dept.	services	9.15
Edward H. Mercier	automobile service	15.00
G. C. Prince & Son, Inc.	office supplies	8.25
P. Conroy	manure	11.81
Thomas Kelley	manure	9.25
John Mountford	rubber boots	5.00
J. J. MacManmon	shrubs	15.00
Charles E. Gee	sharpening lawn mowers	4.24
C. N. Rice	keys	.60
C. B. Coburn Co.	deep sea line	3.78
New Eng. Tel. & Tel. Co.	telephone	3.53
		— — —
		\$343.37

MAY.

To Whom	For What	Amount
W. A. Mack & Co.	pail, cover & dipper	.80
R. J. Haight	sub. "Park & Cemetery"	1.00
The Talbot Dyewood & Chemical Co.	sanitary fluid	1.50
Nicholas G. Norcross	insurance	43.20

To Whom	For What	Amount
Engineer's Dept.	services	9.83
New Eng. Tel. & Tel. Co.	telephone	3.13
The Lowell Electric Light Corp.	light	.88
Donovan Harness Co.	oil, polish, etc.	6.70
C. N. Rice	setting glass in level	.50
C. H. Hanson & Co., Inc.	horse hire	9.00
N. Y., N. H., & Hartford R. R.	freight	.25
N. Y. & Boston Despatch Ex. Co.	express	4.15
John J. Donnelly	shoeing	9.25
Lowell Water Works	repairs	31.00
Bartlett & Dow	grass seed & tools	45.57
C. B. Coburn Co.	linseed meal	.60
The Thompson Hardware Co.	tools	10.75
Amasa Pratt Co.	lumber	10.44
John E. Foster	hay	57.75
Lowell Co-operative Assoc.	manure	62.29
W. B. Whittier & Co.	shrubs	4.75
Henry A. Dreer	herbaceous plants	34.00
Fred W. Jenness	sod	49.05
Livingston Grain Co.	oats	51.87
The Staples Brothers	grate frame	2.50
George B. Wright	trees	20.00
George M. Foster	oats & bran	46.36
		— — —
		\$517.12

JUNE.

To Whom	For What	Amount
Whittet & Company	plants	\$269.65
C. N. Rice	keys	.30
E. F. Hathaway	signs	3.75
Charles E. Gee	sharpening lawn mowers	9.30
Wm. Zimmer	key	.25
J. B. Cover & Co.	oats	1.40
Lowell Water Works	water	4.54
Donovan Harness Co.	axel grease, etc.	16.90
J. H. Sparks	team hire	4.00
John J. Donnelly	shoeing	7.15
Pratt & Forrest	lumber	4.18
George M. Foster	oats	38.52
George E. Hutchins	washers and nozzle	.45
Davis Printing Co.	printing	9.25

To Whom	For What	Amount
Roy & O'Heir	police blouse	8.50
Bennett Bros. Co.	street washers	25.00
Bartlett & Dow	tools	2.90
New Eng. Tel. & Tel. Co.	telephone	3.25
C. B. Coburn Co.	brushes	2.33
		— — —
		\$411.62

JULY.

To Whom	For What	Amount
Pratt & Forrest	lumber	\$5.28
W. A. Mack & Co.	water pots	1.70
American Express Co.	express	.55
C. N. Rice	keys	.35
C. B. Coburn Co.	paint and oil	10.40
Engineer's Dept.	services	6.38
Charles E. Gee	sharpening lawn mowers	2.00
John J. Donnelly	shoeing	13.95
New Eng. Tel. & Tel. Co.	telephone	3.12
The Thompson Hardware Co.	hardware	.11
The H. R. Barker Mfg. Co.	pipe supplies	2.35
Donovan Harness Co.	powders and repairs	6.25
Talbot Dyewood & Chemical Co.	sanitary fluid and alcohol	5.80
J. C. Wood	brooms	2.75
George M. Foster	hay and oats	84.32
E. P. Bryant	wagon repairs	32.70
Bartlett & Dow	hardware	8.12
		— — —
		\$186.13

AUGUST.

To Whom	For What	Amount
Prop. Locks & Canals Co.	leases	\$10.00
Courier-Citizen Co.	printing	5.00
John J. Donnelly	shoeing	7.05
New Eng. Tel. & Tel. Co.	telephone	3.41
Engineer's Dept.	services	2.48
The Robertson Co.	use of chairs	.60
G. C. Prince & Son, Inc.	time books	1.75
Donovan Harness Co.	elixir and oil	2.00
George M. Foster	hay and oats	112.88
Davis Printing Co.	printing	1.50
The H. R. Barker Mfg. Co.	repairs	3.98

To Whom	For What	Amount
J. H. Sparks	pasturing horse	4.50
Charles E. Gee	sharpening lawn mowers	10.50

— — —
SEPTEMBER. \$165.65

To Whom	For What	Amount
Engineer's Dept.	services	\$3.31
Pratt & Forrest	lumber	2.90
Morse & Beals	bulbs	83.00
Talbot Dyewood & Chemical Co.	sanitary fluid	.75
New Eng. Tel. & Tel. Co.	telephone	12.12
Donovan Harness Co.	repairs	7.40
Salois & Leith	carriage repairs	1.00
J. H. Sparks	carriage hire	4.00
George M. Foster	hay and oats	100.87
John J. Donnelly	shoeing	10.95
Water Works Dept.	water	4.39
Lowell Electric Light Corp.	light	2.06
Auditor's Dept.	typewriter	60.00

— — —
OCTOBER. \$292.75

To Whom	For What	Amount
G. C. Prince & Son, Inc.	notebooks	\$2.50
John Brady	teaming	5.00
Robin Hill Nursery	shrubs	71.90
George M. Foster	oats	50.66
Pratt & Forest Co.	lumber	6.63
Fred Jenness	sod and loam	39.82
New Eng. Tel. & Tel. Co.	telephone	3.12
Middlesex Registry of Deeds	deed	1.05
Donovan Harness Co.	blanket, robes, etc.,	34.90
Union Printing Co.	printing	15.00
C. H. Hanson Co., Inc.	teaming	15.00
Lowell Electric Light Corp.	light	1.34
John J. Donnelly	shoeing	11.55
The Robertson Co.	chair	5.00
E. P. Bryant	repairs	8.85
James Whittet	carpenter work	2.54
Harry Parker	manure	32.66
Thomas Kelly	manure	11.88

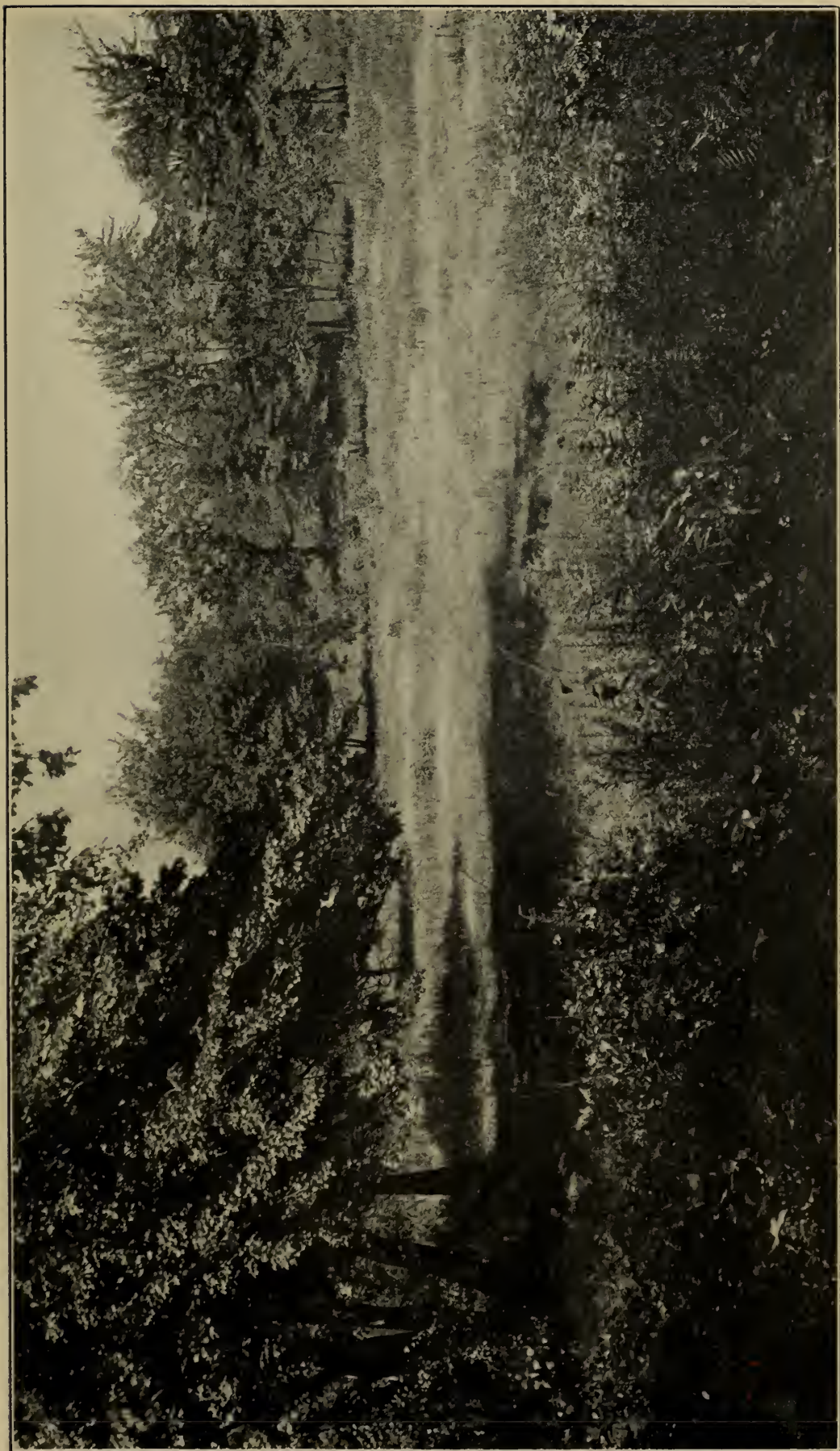
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\$319.40

NOVEMBER.

To Whom	For What	Amount
John J. Donnelly	shoeing	\$8.35
E. A. & A. T. Smith	concrete	252.50
E. P. Bryant	carriage work	58.70
The H. R. Barker Mfg. Co.	plugs and caps	.29
George M. Foster	hay and oats	103.59
Edward Cawley	coal	20.73
Cyrus Barton	building wall	185.00
C. B. Coburn Co.	paint	6.50
New Eng. Tel. & Tel. Co.	telephone	3.12
The Lowell Electric Light Corp.	light	2.94
Morse & Beals	bulbs	25.25
Lowell Co-operative Assoc.	manure	5.90
H. C. Girard Co.	hardware	.48
Bartlett & Dow	hardware	.10
G. C. Prince & Son, Inc.	time books	.50
Donovan Harness Co.	repairs	4.90
		— — —
		\$678.95

DECEMBER.

To Whom	For What	Amount
E. P. Bryant	cart repairs	\$150.00
New Eng. Tel. & Tel. Co.	telephone	3.12
John J. Donnelly	shoeing	12.55
C. B. Coburn Co.	paint and glass	.92
Dr. W. A. Sherman	professional service	5.00
W. P. Brazer & Co.	supplies	9.79
George M. Foster	oats and bran	73.30
Bartlett & Dow	tools	6.17
Benjamin G. Brown	teaming	25.00
G. C. Prince & Son, Inc.	office supplies	16.95
Donovan Harness Co.	robes, halters, etc.	58.75
Davis & Sargent Lumber Co.	lumber	38.82
Adams Hardware & Paint Co.	tools	4.20
Ames Implement & Seed Co.	snow plow	37.50
Gumb Bros.	sharpening tools	7.70
N. Y. & Boston Des. Ex. Co.	express	1.25
		— — —
		\$451.02



VIEW IN SHEDD PLAYGROUND

General Superintendent's Report

TO THE PARK COMMISSIONERS.

Gentlemen:—

I have the honor to present, for your consideration, my Eighth Annual Report of the maintenance and improvements of the parks during the year ending December 31, 1910.

The interest which is manifested by the satisfaction and enthusiasm of the public in the parks leads me to believe that they are growing in the public esteem, and that any reasonable expenditures made for them will receive the cordial sanction of the taxpayer, who has to sustain the expense of them.

Thirty pieces of park land were maintained this year compared with ten in 1903; several tracts have been made into attractive squares, some have been reconstructed and some made entirely new.

A deed conveying to the City for playground purposes fifty acres of land on Rogers Street, Boylston Street and Knapp Avenue, was given by Mr. Freeman Ballard Shedd. This gift is the first of its kind in Lowell, and will be known as the Freeman Ballard Shedd Playground. The donor has already erected a handsome gateway to this playground, and has furnished us with a set of plans

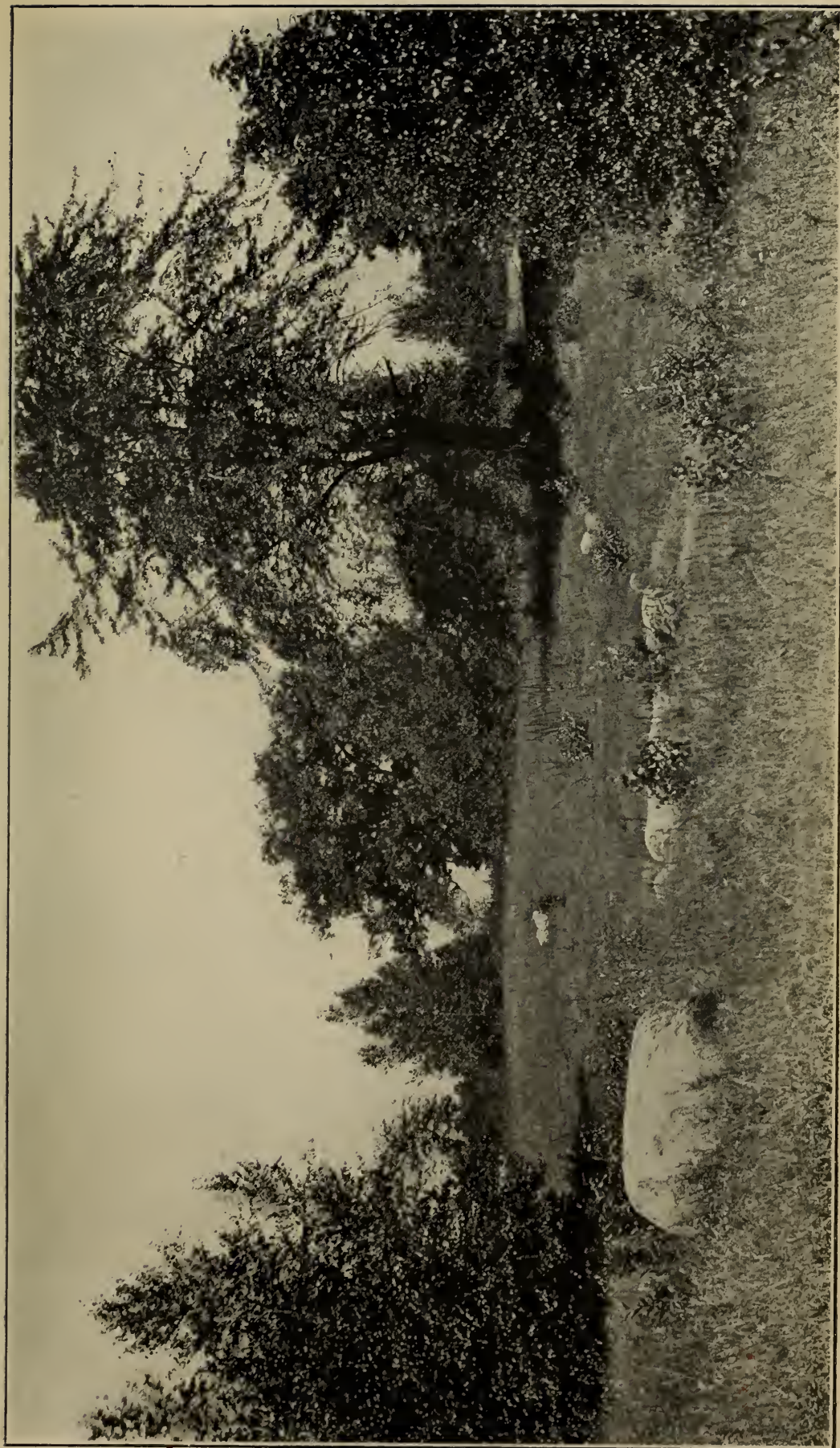
from the office of Ernest W. Bowditch, landscape architect, of Boston, Mass., which, when carried to completion, will give us one of the finest if not the finest playground in the country.

This playground will be his enduring monument, and the impulse which he has given toward civic improvement will be effective long after the present generation is forgotten.

We continue to have appeals from the people who unfortunately are living in the greatest need of recreation centers for small parks and playgrounds in various populous districts. Nothing can be done for them without funds to purchase land. Vacant sites in the right place are hard to find, or are not in existence. We have been compelled, always for lack of funds, to get playground sites by short term leases at nominal cost—in some cases with only consent to use the property until sold—as a business proposition I do not believe that this practice should be continued. The average cost to improve and equip a playground is about \$5,000. The more extensive grounds call for an expenditure of from \$10,000 to \$20,000 for construction and equipment, according to area. When such funds are invested the city should own the land.

Small areas for park purposes should be provided and maintained in all the manufacturing parts of our city, so that the workmen may not, after their day's work is over, be obliged to travel a long distance to reach a large park to rest and enjoy the outdoor, health-giving rest and recreation which, by the nature of their employment, they are deprived of.

If we want to increase our population by attracting additional laboring men, skilled and unskilled, we must have specific advantages to offer in living conditions. Schools and school teachers are not enough, there must



VIEW IN SHEDD PLAYGROUND

be playgrounds and playground directors; there must be parks, clean, well-shaded streets, attractive resident centers, with houses to rent and for sale within the reach of those of limited means, houses that are well constructed, near parks, provided with good water, safe sewerage and ample police and fire protection. Without these accessories, no matter how favored a city may be with railway and water shipping facilities, with areas for factory development, with abundant supplies of raw material, it cannot hope to attain to the greatest heights in commercial and manufacturing industries.

I believe the time has gone by when it was necessary to advance any arguments to the taxpayers of Lowell in favor of a reasonable expenditure for park purposes. The parks in our city are their own best advocates.

FORT HILL PARK.

It is absolutely essential to the proper development of this park that the ground lying across Park Avenue, on the easterly side of the park, should be secured and added to the park. I would recommend that a cement floor and a sanitary drinking fountain be placed in the old well-house, also that a park shelter, with proper conveniences, be built in this park, at the earliest possible moment that funds can be secured.

During the past season a large amount of work has been done in grading, seeding, manuring and filling the ground in front of the hill proper. On the top of the hill a large oval of grass has been laid out, and the old cannon, which formerly stood in Monument Square, have been placed therein. On the westerly side of the hill we have begun the construction of a ballground and a playground. The work on this has been about half done. We have suspended work on account of the lack of funds.

I would recommend that the driveway from the entrance to the park to the top of the hill and from the foot

of the hill to the entrance of the cemetery be macadamized. Many of the walks are in need of repairs. The ground between the park entrance and Hanks Street should be manured, plowed and regraded, as the lawn is nearly run out.

SOUTH COMMON.

Several of the most dangerous trees on this common have been removed, and a large amount of dead wood has been cut from them. I desire to renew the recommendation made last year that the unhealthy and unsightly pond be reconstructed and relaid in cement. Several of the walks on this common are in very bad shape, and should be attended to this spring.

NORTH COMMON.

A complete and adequate drainage system has been completed on this common. Several of the walks have been raised, and over 2000 yards of concrete has been laid on the principal walks. An eight-foot concrete walk has been laid on the Cross Street side, between Fletcher and Common Streets. This common is in need of a great deal of filling. Several of the trees should be removed, as they are too thick at present. A granite sanitary drinking fountain has been placed on this common opposite Butterfield Street. This common could and should be improved as soon as funds are available.

CITY HALL GROUNDS.

I would recommend that these grounds be regraded, manured and seeded, as at present they present an unsightly appearance, also that an iron picket fence be erected between this building and Memorial Hall and that shrubbery be planted in front of the fence.

LUCY LARCOM PARK.

This tract of ground on the bank of the canal in the heart of the city has been completed, and is one of the most beautiful in the city, with its wide walks, green grass, flower and shrubbery beds. At this park we have erected a granite sanitary drinking fountain, and it makes a valuable addition to the park system of our city.

CITY OF LOWELL.

ORDER—

Requesting the Park Commission to name the park on Anne Street Lucy Larcom Park.

Ordered,—

If the Common Council concur, That the Park Commission be requested to name the Anne Street Park the “Lucy Larcom Park” in honor of Lucy Larcom, one of our early mill girls, who brought fame to the good women of Lowell in its early days.

In Board of Aldermen, November 1, 1910.

Read and adopted; sent down for concurrence.

GIRARD P. DADMAN, Clerk.

In Common Council, November 4, 1910.

Read and adopted in concurrence.

FRANK M. DOWLING, Clerk.

Approved, November 10, 1910.

JOHN F. MEEHAN, Mayor.

BELVIDERE PARK.

It seems to me that we should pay some attention to the needs of this park. At present the grass has almost run out. It should be well manured, plowed and seeded.

COBURN SQUARE.

This tract of land has been graded, manured and seeded and a hedge planted on the Chelmsford Street and Stevens Street sides. The improvement in this square is much appreciated by the residents of that neighborhood.

FRANKLIN SQUARE,

Which is situated at the junction of Middlesex and Branch Streets, was formerly an unsightly plot of ground. A unique wall of paving stone has been built around the lot, the lot has been filled in and graded, and will be planted in the spring. The improvement of this lot is in response to an appeal of the people of that neighborhood.

LINCOLN PLAYGROUND.

This plot of ground has been improved by the laying out of a grass strip thirty feet wide and nearly three hundred feet in length, and the planting of trees and shrubs.

SMALL PARKS.

The smaller parks and squares received careful attention throughout the year. Top soil was supplied wherever needed, and new trees and shrubs planted wherever and whenever required.

STABLE AND LENOX SQUARE.

The plot of ground known as Lenox Square, which adjoins the stable, has been manured and regraded and surrounded by a neat fence. The street department has placed edgestones on the westerly side of the street, and the change in grading necessitated the raising of the sidewalk about a foot, which was done and the walk concreted.

PARKER-SPALDING SQUARE.

On August 23, 1910, Miss Hannah M. Spalding sent a communication to the Mayor offering to the city for park purposes the tract of land in front of her home, containing some 1875 feet, lying between Crescent and Parker Street, on the following conditions:

First: That the city shall proceed to remove immediately the old elm tree or such parts of it as may be advisable in order that it may not be a menace to the public.

Second: That within one year the city shall proceed to grade, beautify and adorn these premises with such trees, shrubs and flowers as may be deemed advisable to make it a spot of beauty for this part of our city.

Third: That it shall be called Parker-Spalding Square, in memory of two families closely connected with the Revolutionary period.

Fourth: That the taxes for the present year may be abated.

The City Council accepted the offer on October 25th and it was approved on October 28th by the Mayor and turned over to the Park Commission.

FREEMAN BALLARD SHEDD PLAYGROUND.

The following letter was received by the Mayor:

Lowell, Mass., July 14, 1910.

Hon. John F. Meehan, Mayor, City of Lowell, Mass.

Sir:—I have acquired title to a tract of land containing fifty (50) acres, more or less, which is situated south of Knapp Avenue and adjoining Fort Hill Park, that I offer to the City of Lowell for their acceptance under the following conditions:

First: That it shall forever be used as a park and recreation or playground for the citizens and children of the City of Lowell, and for no other purpose.

Second: That no building or structure shall be erected on the land except such as is adapted and required for use in connection with said park and playground.

Third: That the city will, within a reasonable time, proceed to develop and prepare the ground for such uses on the lines indicated by accompanying plan furnished by E. W. Bowditch, civil engineer, of Boston.

Fourth: That I shall have the right to erect, subject to the approval of the Park Commission, a suitable gateway and entrance, with a tablet or tablets thereon with the following inscription: "Shedd Playground. A gift to the City of Lowell by Freeman Ballard Shedd, A. D., 1910."

Yours truly,

F. B. SHEDD.

At a meeting of the City Council held on July 19, 1910, a joint communication from the Mayor relative to the offer of Freeman B. Shedd of park land was read as follows:

To the City Council of the City of Lowell.

Gentlemen:—Enclosed find an offer from F. B. Shedd for 50 acres of land for the combined uses of a park and playground. I feel it is our duty to accept this gift in the same spirit in which it is given, and to extend to Mr. Shedd our hearty thanks. Mr. Shedd's gift should arouse in the hearts of others a desire to do their part to beautify the city.

Trusting you will give this your immediate attention,

Yours respectfully,

JOHN F. MEEHAN, Mayor.

The offer of Mr. Shedd was accepted by a unanimous vote, and a rising vote of thanks was extended to the donor, and in accepting the gift Alderman Carmichael offered the following resolutions:

“Resolved: That the City Council of the City of Lowell fully appreciates the magnificent gift of Freeman Ballard Shedd of the Shedd Playground to the City of Lowell for the benefit of her citizens for all time.

“Resolved: That the manhood, generosity and patriotism that prompt it will be reproduced in our future citizens by the advantages and opportunities for physical, mental and moral development it will afford, thereby furnishing a lasting, loving and ideal remembrance of the donor.

“Resolved: That these resolutions be spread upon the records of the City Council and an engrossed copy, signed by His Honor the Mayor, the members of the City Council, and be forwarded to Freeman Ballard Shedd.”

An appropriation of \$10,000 was voted on November 4, 1910, for the development of Shedd Playground. Work was immediately commenced, and 1100 feet of roadway has been built. The ground has been cleared of underbrush and undesirable trees and six acres of land has been put into condition for a skating park. To prepare the skating park it was necessary to construct



PATH THROUGH SHEDD PLAYGROUND

several dams. Owing to the amount of frost in the ground it was deemed inexpedient to expend any more money at the present time. As soon as the frost is out of the ground in the spring the work of developing this playground will begin.

On October 11, 1910, the following deed was received:

KNOW ALL MEN BY THESE PRESENTS, That I, Freeman B. Shedd of Lowell, in the county of Middlesex and Commonwealth of Massachusetts, in consideration of One Dollar and other valuable considerations to me paid by the City of Lowell, a Municipal Corporation established under the laws of said Commonwealth and located in said County, the receipt whereof is hereby acknowledged, do hereby remise, release and forever QUITCLAIM unto the said City of Lowell, a certain tract of land situated on the southwesterly side of Rogers Street and on the southeasterly side of Knapp Avenue in said Lowell, and bounded:

Northeasterly on said Rogers Street by three courses, one hundred sixty-eight and $08/100$ (168.08) feet, two hundred and sixteen (216) feet, and fifty-five and $52/100$ (55.52) feet;

Southerly on the parcel hereinafter described nine hundred twenty-nine and $19/100$ (929.19) feet;

Southwesterly on McAlvin Avenue seven and $3/10$ (7.3) feet; and

Northwesterly on said Knapp Avenue seven hundred ninety-four and $6/10$ (794.6) feet; and containing one hundred and seventy-nine thousand seven hundred fifty-two and $46/100$ (179,752.46) square feet of land and be any or all of said measurements or contents more or less, and being the same premises to me conveyed by James C. Warner by deed dated January 10, 1910, and recorded in the Registry of Deeds for the Northern District of said County, Book 448, Page 391.

Also a certain tract of land situated on the southwesterly and southerly side of Rogers Street and on the westerly side of Boylston Street in said Lowell, and thus bounded: Beginning at a stone bound on said Rogers Street at the northeasterly corner of the premises and at the southeasterly corner of the parcel above described; thence southeasterly on said Rogers Street six hundred sixty-four and $8/10$ (664.8) feet to said Boylston Street; thence southerly on said Boylston Street as now laid out two thousand six hundred ninety-three and $96/100$ (2,693.96) feet, more or less to land of the Western Division of the Boston and Maine Railroad; thence northwesterly on said last-mentioned land seven hundred fifty-seven and $9/10$ (757.9) feet more

or less to land now or formerly of William H. Wiggin; thence northerly on said Wiggin land eight hundred thirty-seven and $\frac{5}{10}$ (837.5) feet to land conveyed by said Freeman B. Shedd and Ethan A. Smith to the Proprietors of the Lowell Cemetery by deed dated July 2, 1889, and recorded in said Registry Book 217, Page 105, at a stone bound; thence easterly on said Proprietors' land one hundred (100) feet to McAlvin Avenue; thence northerly along said Avenue at a right angle six hundred seventy-five and $\frac{1}{10}$ (675.1) feet; thence northwesterly still on said Avenue at an exterior angle of 161deg. 56m. about twelve hundred sixty-two and $\frac{9}{10}$ (1,262.9) feet to the parcel above described, the last two lines running on land conveyed to the Proprietors of the Lowell Cemetery as aforesaid; thence easterly on the parcel above described nine hundred eighty-six and $\frac{5}{100}$ (986.05) feet more or less to the point of beginning. My title to said premises is derived under three deeds, one given by Elizabeth Rogers, dated February 23, 1889, and recorded in said Registry, Book 203, Page 564; one given by Ethan A. Smith, dated January 13, 1910, and recorded in said Registry, Book 448, Page 388; and one given by Robert G. Bartlett, dated April 25, 1910, and recorded in said Registry, Book 451, Page 18.

The above described premises are conveyed subject to the following express conditions, and in the event of the violation of one or any of said conditions the premises hereby conveyed shall immediately revert to said grantor and his heirs and assigns, and said grantor shall have the right to enter and take possession of said premises:

First: That it shall forever be used as a park and recreation or playground for the citizens and children of the City of Lowell, and for no other purpose, except that any portion of the same adjacent to any of the streets as now laid out may be used by said City of Lowell for the purpose of widening said streets.

Second: That no building or structure shall be erected on the land except such as is adapted and required for use in connection with said park and playground.

Third: That the City will, within a reasonable time, proceed to develop and prepare the ground for such uses, on the lines indicated by plan furnished by E. W. Bowditch, Civil Engineer, of Boston, to be recorded herewith.

Fourth: That I shall have the right to erect, subject to the approval of the Park Commission, a suitable gateway and entrance with a tablet or tablets thereon with the following inscription: "Shedd Playground. A gift to the City of Lowell by Freeman Ballard Shedd, A. D. 1910."

TO HAVE AND TO HOLD the granted premises, with all the privileges and appurtenances thereto belonging, to the said City of Lowell and its successors and assigns to its and their own use and behoof forever.

And for the consideration aforesaid, I, Amy F. Shedd, wife of said Freeman B. Shedd, do hereby release unto the grantee and its successors and assigns all right of or to both DOWER AND HOME-STEAD in the granted premises, and all other rights and interests therein.

IN WITNESS WHEREOF, we, the said Freeman B. Shedd and Amy F. Shedd hereto set our hands and seals, this eleventh day of October, in the year one thousand nine hundred and ten.

FREEMAN B. SHEDD (seal).

AMY F. SHEDD (seal).

Signed and sealed in
presence of
F. F. ROWE,
Witness to both.

COMMONWEALTH OF MASSACHUSETTS.

Middlesex, ss.

Lowell, October 11, 1910.

Then personally appeared the above-named Freeman B. Shedd, and acknowledged the foregoing instrument to be his free act and deed, before me,

CHARLES J. WEIR,
Justice of the Peace.

SCHOOL GROUNDS.

I believe that there is no class of buildings which should be more carefully designed and placed, with reference to their environment, than our public schools.

I believe that Park and School Boards should work unitedly, and that the best artistic skill should be employed in the selection of sites that would furnish Nature's most perfect setting for gracefully-designed buildings. Taste is cultivated by what the eye sees, and early associations with good form and color in art and nature will accomplish more strained efforts in later life.

No one doubts that early surroundings leave an indelible imprint on childish minds, or the desirability that such primary impulses should be in the right directions, and it seems to me that child life without some fundamental education in the ways of budding, blossoming nature to brighten it and to form it, is dwarfed and misshapen.

The love of flowers and of natural scenery seems to be inherent. At least, I have never known a child devoid of a distinct love for flowers. In this beautiful world it is a sin that any child should be deprived of what is so evidently a birthright.

That much remains to be done before the children of the masses are reached is shown not only by the barren surroundings of thousands of homes, but by the conditions existing around our public school buildings.

The school houses stand forlorn, sometimes with scarcely a tree to shelter the barren, dusty desert commonly termed "the playground." The unattractive buildings stand forth in all their blankness, with no sheltering banks of shrubbery, no veiling mystery of vine tracery to shield their inharmonious outlines and colors. And, worst of all, too often citizens accept this as the proper thing, or rather give it no thought, seeming blind to the ungainly, unbeautiful sight.

Our children are not educated to love flowers. They are not educated to protect shrubs in our gardens. I have been told that you can go all through Europe and you will never find a child picking a flower or shrub in a public ground. Our children should all be educated to take care of them, to let them grow and feel their worth.

I think there is quite a distinct inclination throughout the country to improve the school yards. It is possible and desirable to get children out of their ruder habits and induce them to respect and care for trees and shrubs while they are under the discipline of schools, for they

will thus form the habit of protecting them in the public parks and pleasure grounds thereafter.

I believe that we should encourage the children to plant trees in school yards on Arbor Day, and too much can hardly be said in support of this idea. If this is done the child becomes associated with that tree, becomes interested in its growth and development, learns to love trees in general and to observe carefully their interesting peculiarities and characteristics. Nothing softens and broadens the human mind so much as observation and love of nature in all its phases, and so we teach our children not to destroy flowers. It has long been considered an excellent form of early education in some places to interest them in gardening.

Improvements have been made in two of our school grounds during the past year. The Billings Street school grounds have been loamed, manured and seeded, and the Greenhalge school grounds have been transformed from a barren spot into a beautiful lawn with grass and shrubbery. The Highland school grounds have been partly rough graded and trees planted, and the Moody school grounds have been kept in fairly good condition. All these school buildings could be made more attractive by the planting of Ampelopsis vines. I would urge that a much larger appropriation be asked for this year to carry on this work.

PLAYGROUNDS.

The playgrounds under the jurisdiction of this Department and located at the North and South Commons, Little Canada, Paige Street, Chelmsford Street and Fayette Street have been kept open all summer, and have proved a great attraction. The equipment was largely added to, and competent attendants employed to instruct in the various games played.

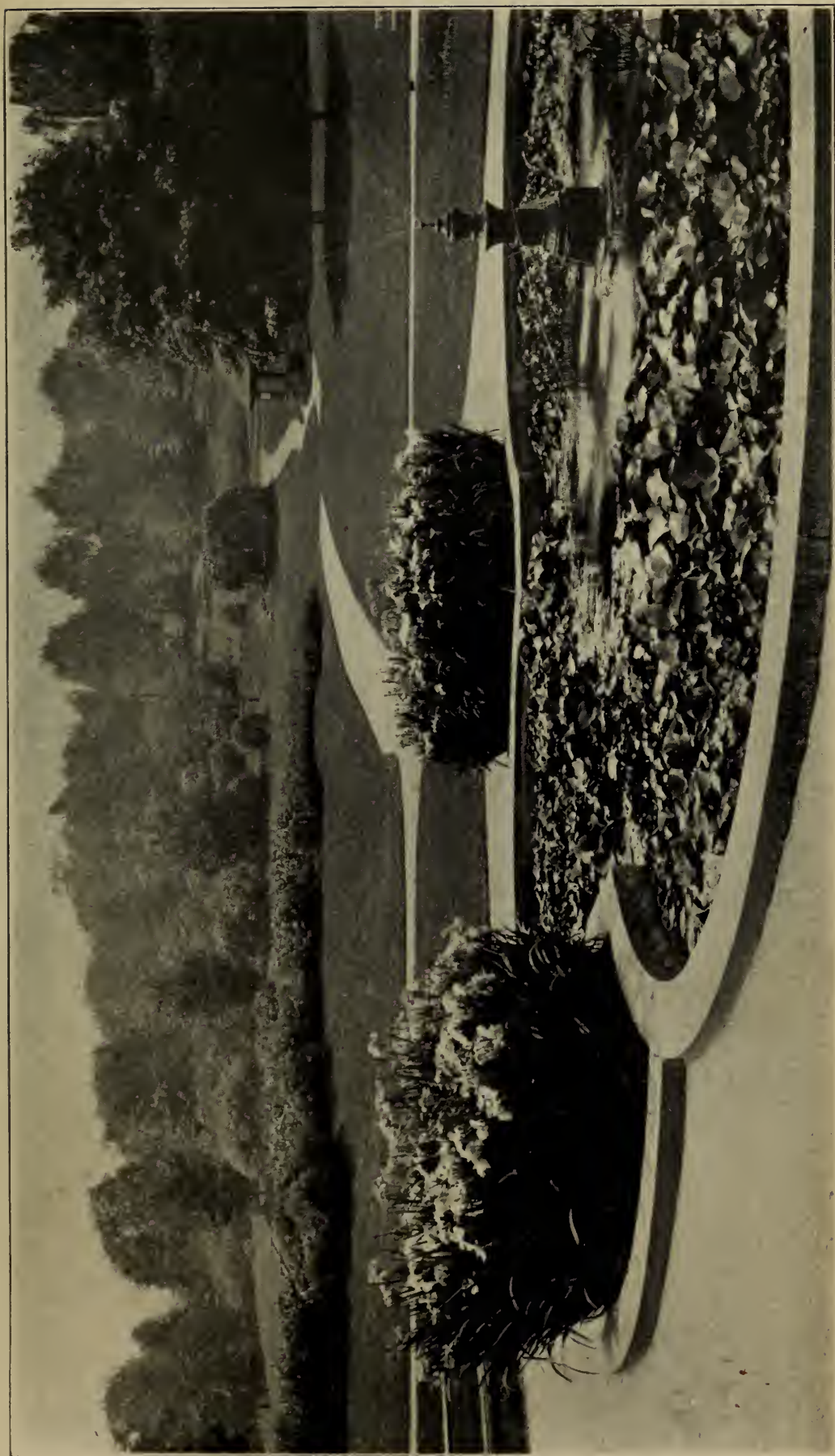
Now that the movement for playgrounds has become an established part of our city life, who is going to assume to measure the money value of healthy children who can use the playground equipment instead of wasting it, who become strong men and women instead of invalids, who become producers instead of drones? Who is going to assume to measure the moral values? When people look on these aspects of the question what is going to be the fate of the petty economists who strain at a gnat of expense and swallow a camel of waste?

If we have not got the land for playgrounds buy it now. Every city can see in which direction it is growing. Get two or three acres of land here, there and elsewhere, where a school is likely to be needed; meet the problem, and let us have done with the calamity howl of expensive land and no money. When land is needed, when it is admitted that it must be taken sooner or later, take it when it can be had for one cent or a fraction of a cent per foot, instead of waiting until it will cost five, ten or twenty-five cents per foot, as it surely will later. It is not only economy to do this, but it is a money making enterprise and sound business policy.

The playground is a form of social insurance, and that city or municipality is truly "penny wise and pound foolish" that holds the premium so close to its eyes as to blind it to what lies beyond.

REMARKS.

There is a perpetual and growing tendency to expend our entire energies in pursuing the almighty dollar, for which, there being so few, we are the more eager. But we are sometimes called to halt, and to contemplate the serious question as to "where we are at" and whither headed. So the thought comes how may we improve those of our surroundings with which we are confronted in the course of our daily duties, in such manner that they



VIEW SHOWING POND AND IRIS AT FORT HILL PARK

may satisfy our natural tastes in different degrees according to previous associations or education, and at the same time provide a stimulus to our higher appreciation of the aesthetic.

Generally those things which tend to make life brighter and the world more habitable are neglected until such time as their accomplishment or acquisition becomes more difficult than if considered at an earlier day.

It has been said that art must be a complement to nature. There are many ways in a municipality of assisting the nature which exists, and in harmonizing by means of man's artifice in such manner that each seems a part of the other.

In the building of cities, the commercial idea must be foremost, but the problem of bringing into harmony such formative work with the hills, valleys and woodlands, as well as with such bodies of water with which the city may be blessed, should not be ignored or forgotten.

The history of the leading cities of the country shows a strange short-sightedness on the part of early officials. Not only were parks and necessary breathing spaces and recreation spots unconsidered, but even the drainage, sewerage, and water supply were often planned with reference only to immediate wants and conditions. Streets were graded in a manner to complicate rather than aid in the future development; and the problem of rendering attractive and beautiful was made more difficult from year to year as improvements increased and became more permanent. American cities, although awaking to a realizing sense of these conditions, and profiting by the experience of their foreign neighbors, are still far behind the chief cities of Europe.

But in our city there are opportunities of now acquiring wisely such lands as in a short time will be almost beyond our reach, both in the heart of the city, near the

crowded centers of which there will inevitably be some, as well as in the farther outlying districts, where large tracts of forest and meadow may be acquired, thus giving country privileges to the denizens of a great city, and within their easy access.

In the business portions, the laying out of streets in rectangular form upon nearly as level a surface as possible is essential, but in the residential portion the undulations of the ground should be heeded, giving some of that picturesqueness which may be so charming a quality in an otherwise uninteresting quarter. Often depressions are filled, or hillocks with their accompanying foliage cut away, in order to make things look trim, thereby giving a sameness and monotony, so undesirable in landscape architecture.

Few jewels are there but may be enhanced by an appropriate setting, and so with buildings that spring up on all sides. An excessive mercenary spirit is doubtless accountable for the deprivation of suitable surroundings to our domestic as well as more public architecture. There are few people who are entirely lacking in the appreciation of nature's adornment to know life; and it seems strange that we, the descendants from a race so domestic in its tastes, should be content to live in uninteresting environments with little to make the exterior of our homes attractive, while nature stands so ready to assist.

What is true in a domestic way is more so in a public, where the appropriation for expenditures usually makes it possible to accomplish a result complete in its harmony of nature and art; and what is thus obtained would have by far the greatest influence upon the thought and life of the greater number of citizens.

In Lowell scarcely an example exists among our public structures where the unfortunate blunder has not

been made of ignoring and forgetting the surroundings and suitable position for foreground and background. Our municipal building and public library, buildings involving an expenditure of \$603,365.36, cover an entire square. Were each placed in the center of a square or with a public plaza in front of them, each would appear well, but as they now stand neither their mass nor detail can be described, and little besides glimpses can be obtained of a worthy municipal monument.

These stupendous buildings, the city's most notable structures, entailing such great cost, and which might be both a source of education and pride, become in their exterior effect merely a vast pile and a constant reminder of a great mistake.

Churches, which in their usual broken and picturesque outline should give a sparkle to the monotony of city streets were they placed in such a way as to admit of foliage and foreground, are nearly all crowded upon parcels of ground hardly large enough to contain them.

As public squares are acquired and beautified, whether as encircling public structures or as open parks, their suitable adornment with fountains and statuary will suggest itself as appreciation of art increases and occasion arises.

The introduction of foliage so far as possible to cover up and blend with harsh lines, formed in the construction of cities, is of the highest importance. In our own city that function of the park commission which would perhaps be most appreciated and the most valuable in its far-reaching results, would be that of general tree planting upon the streets of the city, which is provided for by the public statutes. I would suggest that trees be planted on the various streets and avenues, upon the request of property owners, assessing the cost of same against abutting property, protecting, watering and

guaranteeing them for five years, the cost of each tree to the citizen being five dollars. In this way great good would be accomplished, not only in the acquirement of the trees, but in the uniform and orderly manner of their planting. I believe that it would be of great value to the city, and that the owners of property would hail it with pleasure and as a great relief from personal responsibility and unnecessary expense, because so few people know how to select trees, what kind of trees to put out, what size trees would be best, what trees would thrive, etc. It seems to me that the property owners would be glad to have the park commissioners take charge of this matter.

No city should be more interested than ours in public schools, churches, public libraries, in public parks and parkways, and all those things which make stronger men and women, build character, and educate them for a better life. There have been but comparatively few in this community who have given their time and talents to outdoor art improvement for the public good, a work that is of great value to the present generation, and of inestimable value to the generations which will succeed us. This commission can do much to assist and instruct people in the development of outdoor art, and its work will elevate and bring enjoyment and sanitary improvement to our city. I know and feel that there is a mission for us, and that all the good people of the city should unite to foster and perpetuate this idea.

CONCLUSION.

In closing my report I wish to express to the members of the Board of Park Commissioners my fullest appreciation for their support and their good-will, and wish



PLAYGROUND EXERCISES AT SOUTH COMMON

to thank the employees of the department for the efficient service rendered, making it possible to accomplish all that has been done.

Respectfully submitted,

CHARLES A. WHITTET,
General Superintendent.

CARE OF TREES.

LOWELL, MASS., November 1, 1910.

TO THE PARK COMMISSIONERS.

Gentlemen:—

At your request I have made a thorough and practical investigation of the present system and condition of the trees within the streets of our city, which has resulted in the gathering of a number of salient facts showing the existence of undesirable conditions and the pressing need of a more systematic and uniform management, and the need of better care and maintenance of the trees than at present existing. The care of the trees and shrubs, now or hereafter planted or growing in the streets, roads, squares, courts, parks, public gardens and other public enclosures in the City of Lowell, is vested with the Park Commissioners of this city, who shall have exclusive power to act in respect to setting out, planting, care, maintenance, removal, cutting and trimming of such trees and shrubs, Chapter 188, Laws of 1904.

In the past a lack of good management in the general treatment of the street trees in this city is the most obvious feature. The causes for this are very evident to any one who thinks at all about the matter. It is my purpose to try to point out the way to avoid such a state of affairs in the future, and to correct the existing conditions, as far as possible.

The trees have been variously located along the traveled walk, in most cases between the traveled walk and

the curb. Others, again, are on the adjoining land just inside the property line. The spacing is unsystematic, and many stand too closely together, the necessary thinning having been neglected. Few trees, suitable for city streets, ought to be allowed to stand closer together than forty or fifty feet. On almost every street there is a lack of uniformity in the selection of the kinds. On most of the streets which have been planted there are long distances entirely without trees, and a great many streets have no trees at all.

Nearly all have been badly neglected in the matter of pruning. Dead limbs are prevalent everywhere, and are not only unsightly, but a menace to the health of the trees, and dangerous to passers-by, because of their liability to break off and inflict injury. It may not be feasible to give every large tree that pruning which it seems to demand, but the larger dead limbs certainly ought to be removed. In the case of the younger trees it is to be hoped that all dead limbs may be removed, and that such treatment will be kept up in the future.

Many of the trees are too thickly set, leaving them deformed, bruised, gnarled, partly dead, untrimmed and broken. In some cases the limbs have been roughly cut off, leaving ugly stubs. Trees have also been allowed to head too low and then trimmed up high after they are too mature to regain their natural form and grace, and so on to the end is the list of ills. It is not just to say that there are no beautiful trees in Lowell, but it is safe to assert that a well-developed, graceful tree is the exception, and that these exceptions are by far too few.

In growing trees on the public streets it is necessary to fight the thoughtless small boys, the runaway horse, the ruthless driver, the occasional ruffian; then there are the layers of gas, sewer and water pipes and electric wire conduits; there are pavers and sidewalk layers who sur-

reptitiously cut the roots, and builders who bruise and maim the trunk; there are overhead wires and underground gas leaks, both sewer and illuminating gas, to say nothing of the destructive insects.

Overhead wires are a constant menace to the trees. They are more than a menace, they work actual and great injury to the trees every year. The constant swaying of the wires abrades the bark and thus initiates decay. Furthermore, leakage of the electric current is discharged into many trees. Not a few trees have been killed by this deadly current. The wires should be removed from the trees and placed in conduits. There has been improvement in the management of overhead wires by companies using them. There is still room for improvement. It is to be hoped that in the near future no overhead wires will be used.

Another hurtful practice is that of concreting or cementing a walk close up to the base of the tree. This shuts out air and water from the roots and robs the tree of these life essentials. An opening should always be left about the base of a tree, so that water and air may have free and unimpeded access to the roots.

To protect the trunks of the trees from horses, every tree, whether young or old, newly planted or in full growth, should be enclosed to a proper height in a wire guard or wire netting of a small mesh. By doing so it would effectually protect the tree from the teeth of the horse. Every property owner should thus guard the trees abutting his tract of realty. It would cost but little and achieve much.

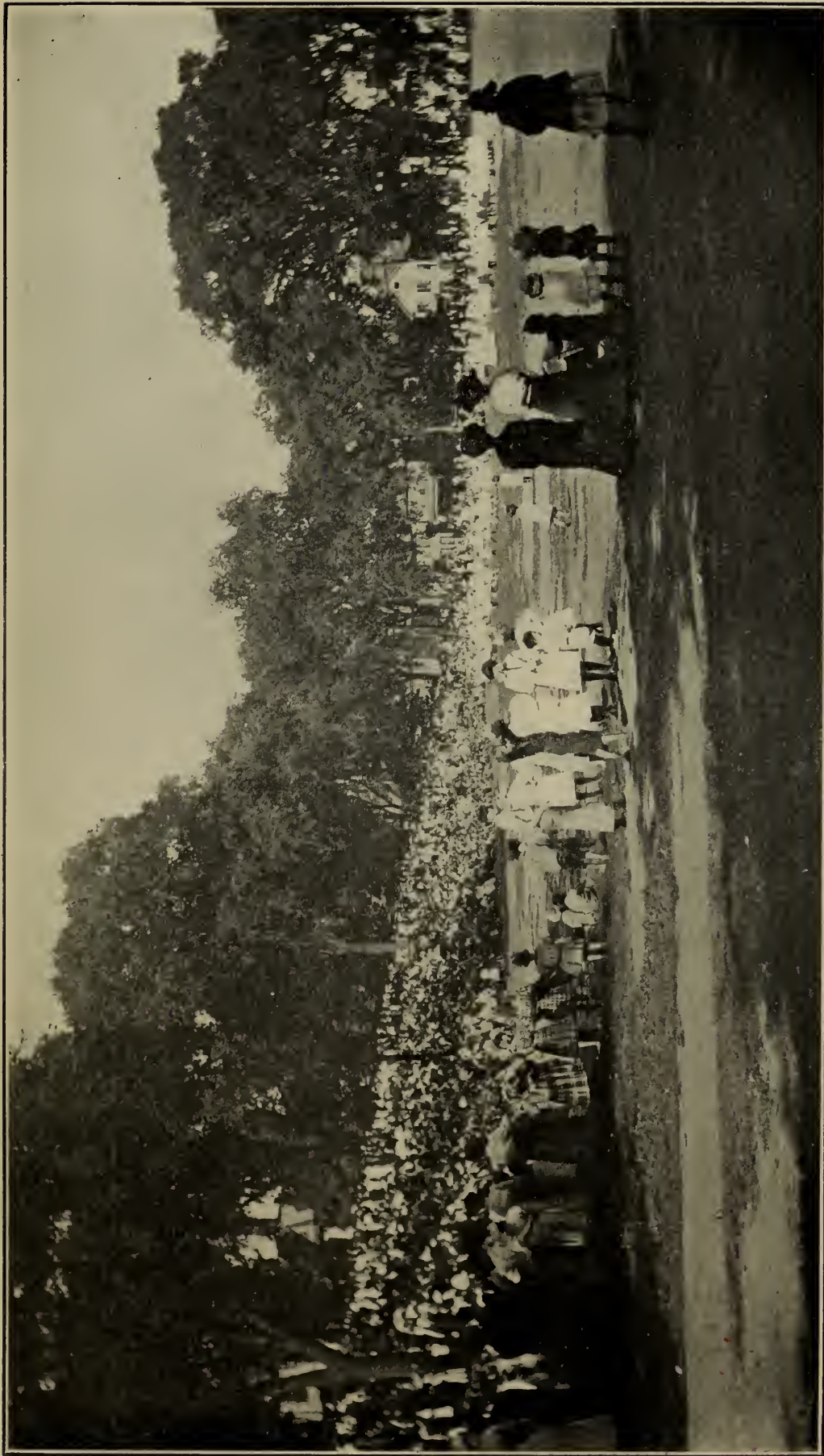
The principal insects injurious to our trees are the imported Elm Leaf-beetle (*Galeruca xanthomelaeua*), and the pest of the elm tree, and unless some effective means is devised to prevent its ravages, it looks as though people will be compelled to discontinue the cultivation in

all its varieties of this magnificent tree. This insect has been in this country about fifty years. Where it has gained a footing it has remained, some years more abundant than others, but all the time present. Most insects come, and in time go. But the history of this insect in Europe and its fifty years of life here lead to the belief that it has come to stay if the elms are allowed to remain.

The *Acer saccharinum*, Sugar Maple, is a delightful tree, yet it has an enemy in the Maple Tree Louse (*Pseudococcus Phenacoccus Aceris*). This insect has spread rapidly during the past year, so much so, that during August much of the foliage would drop off. This is a dangerous species, and should be stamped out.

The Tussock Moth (*Orgyia leucostigma*), is another insect which eats the leaves from certain trees and impairs their beauty. During the spring, after the hatching of the eggs of this moth, there are no storms of wind and rain sufficiently severe to destroy the growing caterpillars.

Borers are the most injurious of the insects which are enemies of our trees, and at the same time they are the most difficult to reach and destroy. A glance at them is all the present occasion will permit to be given. They work in the wood, and hence are beyond the reach of external applications. There are many kinds of borers, and they have different habits. Some work only in decaying wood, some only in dry, sound wood. Comparatively few work in living tissues. These only are injurious to living trees. The amount of injury depends upon the kind of borer, the kind and size of the tree and the locality of the attack. The borer doing the greatest injury at the present time is the Leopard Moth (*Zeuzera pyrena*), that is so destructive to the Silver Maple, Sycamore Maple and the Elm. It is a difficult insect to con-



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tend with. Then there are the Gypsy and Brown-tail Moths, with which every one is more or less familiar.

Thousands of kinds of insects may be injurious to trees, but few are seriously so, and these usually appear and disappear. It is with insects and trees much as it is with diseases incident to mankind. These diseases are numerous, they come and go, a few are severe, many are not, and almost all are amenable to intelligent management.

The subject of pruning trees is very broad in its application. Trees need pruning more or less from the beginning to the end of their existence. To prune a tree properly is to benefit it. To prune it improperly is to injure it. To prune a tree will require a man having a knowledge of trees and the fundamental principles of pruning. He must have taste that will enable him to give a tree becoming shape, as far as circumstances will permit. He must be a man of honor, who will prefer the good of the tree to his own convenience. The trimming and heading back of trees, as has been practised in Lowell, has resulted in malformations that are disagreeable. Add to this disfigured and deformed trunks, resulting from injuries caused mainly by horses, and the result in many instances is positively ugly. Such trees should be removed, out of respect for intelligent and refined people, who, while they are allowed to stand, are annoyed whenever they are seen.

Lowell has a great variety of trees on her streets. There can be found Silver Maple, Cut-leaved Silver Maple, Ash-leaved Maple, Norway Maple, Sugar Maple, White and Red-flowered Horse Chestnuts, White and Red Birch, Hickory, American Chestnut, Western Catalpa, Cherry, Apple, and Pear, Cockspur, English Thorn, American and Purple Beech, White and European Ash, Honey Locust, European Larch, American and European

Mountain Ash, American and Silver-leaved Linden, American and European Buttonwood, Carolina and Lombardy Poplar, White, Scarlet and Pin Oaks, White and Pussy Willow, American and English Elms.

We have in our streets and parks a total of 10,286 trees. Out of that number I would recommend that 708 be removed, they being considered dangerous.

A determined effort has been made to have the unsightly stumps and dead or dying trees and portions of trees removed. Since we assumed charge of the trees in 1904 we have removed 635 trees, the appropriations in the several years varying from \$500.00 to \$1,990.00 per year. Besides, a large amount of pruning has been done at the request of property owners and others.

I would recommend that the sum of \$10,000.00 be appropriated for the removal of all dangerous trees and the preserving of what trees we already have, especially on street lines between the curbing and the walk, particularly the old trees. I would recommend that all decayed matter be removed from the cavities, insect life killed and prevented, the cavities treated with tar, creosote, pine tar and rosin, the best ingredients to prevent insect life and for waterproofing. All the cavities should be cemented, which should be properly mixed to remain solid, and then covered with zinc, which is afterwards painted and all cuts waterproofed. Many trees should be bolted to prevent limbs from breaking off. The expense of properly and scientifically treating trees is less than that incurred in their removal. The value of prolonged life of trees cannot be estimated in money.

Protection to trees is important, and can best be secured when people are interested and will assist in restraining and, if need be, bringing to punishment any one doing injury to them.

Municipal embellishment, at the present time, is receiving increased attention. Future generations will

have just occasion to praise or to censure the people of the present according to the efforts made, and the taste and judgment displayed.

While we enjoy the trees planted and protected by our ancestors, so our descendants will enjoy those planted and protected by us.

I would recommend that in the future all street trees in the residential sections of the city be planted by the Park Commission. The authority for such can be found in the Revised Laws, ch. 53, s. 12 (as amended by Chap. 296, Acts of 1908, s. 2, and Chap. 321, Acts of 1910).

The Legislature, exercising the authority of the Commonwealth for the benefit of the people, has enacted laws to protect, preserve, and encourage the planting of shade trees in highways. It has charged certain officers with the duty of carrying out the provisions of these protective laws.

But as the highways are properly used for other purposes than for growing trees, there is another body of laws and of officers designed to secure the safety and convenience of the public in their use of the highways. These provisions are necessarily paramount to the first, although not of necessity antagonistic.

If these limitations are kept in mind some confusion of thought may be avoided. It will be seen that the local tree official's duty is to preserve trees. When, therefore, he destroys or removes a tree (or consents to its removal) it is only upon one of two conditions, viz., either it must be for the welfare of the tree or some other tree, or it must be because it interferes with the safety and convenience of the public.

In the first instance (as to the welfare of the tree) no other officer has any jurisdiction whatever, and this is likewise true in regard to planting trees as well as removing them. The tree official must decide, and his decision is final.

On the other hand, whatever concerns public safety and convenience is to be decided by the highway authorities, or by the shade-tree official acting under Chap. 53, sec. 13, of the Revised Laws as amended by Chap. 297, sec. 3, of the Acts of 1908.

With but one other fact clearly in mind the jurisdiction of the tree official will be fairly well understood. It should be remembered that no one, neither officer nor private citizen (except in case of State highways), has the right to cut, prune, climb, or attach anything to a tree in a highway—not even if it is done with the purpose of benefiting the tree—without permission from the tree official. Disregard of this provision is a misdemeanor, and it is the duty of the tree official to prosecute offenders.

One of the beauties of Lowell—not half so highly appreciated by her residents as it should be—is her tree-shaded streets. What can be finer than the long tree-lined vistas of some of our streets? Even a block of very ordinary houses is made attractive by abundant arboreal foliage. This is not merely a matter of aesthetics. Many property owners in Lowell seem to be unaware that there is a solid pecuniary phase to this subject. Houses in front of which grow thriving trees are apt to be more in favor with renters and buyers than are buildings whose sidewalks are but barren brick or concrete. A fine young tree costs but little, yet it adds materially to the good looks of the premises. The trees may be said to have been God's first hospitals, as well as His first temples. They ministered to the health of primitive man, and civilized man has not outgrown the need of at least a suggestion of them.

• Let the citizens of Lowell awake! Let other cities adopt false teachings, but let Lowell study diligently, and wisely put into practice only such teachings in the way of

arboriculture and street ornamentation as, by results, succeeding generations shall be constrained to pronounce the best.

Respectfully submitted,

CHARLES A. WHITTET,

General Superintendent.

SUGGESTIONS OF GEORGE C. WILTON, HEAD SUPERVISOR.

There are great possibilities for the Lowell Playgrounds, and they can be made as attractive and useful as any in the country.

I would suggest that a Department of Basketry, Raffia, Caning, Needlework, Dancing, Manual Training, Shoe Repairing and Library be created, and a competent teacher preside over each of the respective departments mentioned.

It shall be their duty not only to instruct the children of the various play centers, but they shall meet and instruct the teachers of the various departments in their respective specialties one hour each week. In case of the illness of any teacher this arrangement will be found very convenient.

If a few good Tennis Courts were constructed in the new Shedd Playground, it would attract a better class of boys and girls, and the moral effect on the rougher element would be beneficial.

I would suggest that a small vegetable and flower garden be established in different parts of the city, subdividing the same and assigning a plot to a boy or girl that they may secure a working knowledge of vegetables and flowers and the best methods of raising and caring for the same. If such knowledge were imparted it would create a wholesome desire in the pupil to possess a gar-

den, and would induce many to seek a more wholesome environment than what is usually found in the congested districts of the city, and many would be led to a freer and fuller life thereby.

Better results can be obtained by having two male teachers on each playground, the Head Supervisor being at liberty to render assistance when it may be most needed.

A German vaulting horse, similar in construction to the one at the South Common, and one set parallel bars, also detachable, be placed in each playground. It is vital that the apparatus mentioned be made detachable, otherwise many boys would be injured during the absence of the teachers.

I would suggest that the Head Supervisor be given power that he may enforce orders, if, in his opinion, such action be deemed necessary, that he may be better enabled thereby to carry out such organization as in his opinion is best, to settle all disputes and attend to all grievances that the teachers may care to present. That all the playground activities be placed under his control, and that he have full control of all supplies, and the teachers needing such supplies shall make requisition to him for the same. That the supplies may be kept at some safe convenient place, so that the Head Supervisor may without delay, or red tape, secure the needed apparatus.

The construction of Shelter Houses, to which women and children could repair in case of sudden storm or rain. The laws of health demand that a closet and urinals for both sexes be established in each playground.

Shower baths, if placed on all of the playgrounds, would be both desirable and the hygienic effect on the boys would be great. A swimming pool would also be very desirable, enabling many other boys and young men to acquire the art of swimming without resorting to the

dangerous canals and rivers, and would result in the saving of many lives. .

The urinals at the South Common are dark and filthy and are a menace to health. Owing to their being dark and conveniently located, the boys use them for closet purposes. I would suggest that they be abolished.

The pool at South Common in its present condition is also a menace, not only to health, but to the life and limb of the boys and girls that use it for wading purposes. It is filled with mud, filth and broken glass, and many boys contract cases of blood poisoning as a result of cuts received while using the same. I would suggest that it be cleaned out and the bottom cemented. Drains could be made which would encircle the pool and carry off surface water and washings from the bottom, and the same to run into a sewer. Eighteen inches of water would be a desirable depth to maintain, a constant supply being continually poured into the pool to keep it pure and healthful. It would be such an attraction that the youngsters would find it difficult to resist its drawing power, and in warm weather would add to the comfort and health of the boys.

I trust that the suggestions I have made will prove useful to you in the planning of the 1911 work.

SUGGESTIONS OF CHRISTOPHER SCAIFE, SUPERVISOR.

The pond on the South Common is a menace to public health. The bottom is filthy, unsanitary and unsightly. It should be cemented, with a cement ditch laid all around the edge to keep the drainage water out, with running water in the pond to keep it clean. This would make a wading and boat-sailing pond that would be enjoyed by thousands of children. A small shelter should be erected for the children to change their clothing in.

The running track on the South Common is in bad condition. It needs a new curbing board all around the inside, while the outside needs banking at the turns. A grass tennis court would be a splendid addition to both the North and South Commons. Hand ball courts should be erected with very little expense, thus giving to the public one of the finest out-of-door games.

We need more base ball diamonds. There were over seventy organized base ball teams playing in the different base ball leagues last year, and it was quite a difficult proposition to find base ball grounds to accommodate them.

I would suggest the placing of instructors in the following school grounds: Lincoln, Greenhalge, Highland, Moody Street and Riverside Schools. Shedd Park would make a splendid recreation center, with base ball diamonds, tennis courts, hand ball courts, croquet courts, etc., affording amusement and play for thousands of people. I would suggest the "Giant Stride" as an addition to playground apparatus.

With the present playgrounds and the addition of Mr. Shedd's splendid gift to the city, Lowell will be in the front rank with the cities of New England in its provision of playgrounds and recreation spots for its people.

The foundation of a building must be strong, or the building will totter and fall. It is so with men and women. If the fundamental training, which is the foundation of their future life, be neglected, the first hard storm of life sweeps them out of existence. Lowell, by its provision of playgrounds and proper supervision, is instructing her children in the fundamental qualities and proper morals at the time when most needed, which will make for the city men and women of clean character, strong bodies and healthy minds.

SUGGESTIONS OF CHARLES R. CHURCH, SUPERVISOR.

- 1st. Segregate the boys and girls.
- 2nd. All of the children under seven years of age should be classified with the girls.
- 3rd. Enclose space on the grounds set apart for the girls.
- 4th. The Head Supervisor should plan and organize his work a month before the opening of the playgrounds.
- 5th. Employ the services of the older High School boys and Grammar School boys as helpers and leaders.
- 6th. There should be some form of industrial work for boys.
- 7th. Make use of the Boy Scouts and the Grammar School Athletic League in connection with the games and exercises on the athletic grounds.

REPORT OF ELIZABETH C. KENNEDY, SUPERVISOR.

When the season opened there were three playgrounds for the girls: the North and South Commons and the Aiken Street playground; but the need of the smaller children living in the vicinity of Paige Street and also of those on Fayette Street was so apparent that the committee decided to employ a supervisor for each of these places, and was fortunate in securing two teachers, who did excellent service.

The money expended for apparatus and materials for industrial work counts but little, much as they are needed, unless there is the right kind of an instructor, and that we were especially fortunate in this respect is shown by the remark made by the State Secretary of the Massachusetts Playground Association, who said while visiting our playgrounds, that he had seen no more and no better

work carried on than in Lowell, and that our workers were among the best he had ever met. At the close of the season a really remarkable exhibition of articles made by the children was given at Dow's Drug Store, through the courtesy of the proprietor. A widespread interest in the work was aroused, and many favorable comments were overheard as to the varied character of the work and the practical value of the instruction given.

It has been demonstrated beyond question that one great need of our city is the small playground, properly supervised, in the congested districts, of which there are many; that these smaller playgrounds must be fenced in and properly protected against annoyances and the intrusion of older and vicious boys; that only younger children should be admitted to these small playgrounds; that some form of industrial work should be carried on; and that some shade from the heat of the sun should be furnished with some shelter where the sessions may be held in stormy weather.

During the past summer several cases were found in which medical attendance was absolutely necessary. As a result of these cases some of our physicians gave freely of their services when needed. Another year some plan might be devised for regular medical inspection.

It was the general opinion that the open commons are not suitable as playgrounds for the older girls. Many of them are at the age of what may be called the "self-conscious age," a fact which was very apparent at times when men and older boys, many of them loafers, watched them at their work or play. Some of these children see only the "seamy" side of life, so may take certain conditions for granted, and never think of trying to lift themselves above their surroundings; but daily association for eight or ten weeks with the right kind of an instructor in a pure moral atmosphere may have a wonderful influence for good upon these young lives.

One very gratifying result of the summer's work was the installing of six shower baths in the basement of the Eliot School. While the expense was considerable, they have given genuine satisfaction and pleasure to the hundreds of boys and girls who shared alike in their use, to say nothing of their sanitary influence.

Another year it is to be hoped that a determined, systematic, tactful effort will be made to secure the attendance of the Greek, Polish, Portuguese, Italian, and other foreign-speaking children, for many of these children are among those who most need the benefits of the playground, and but comparatively few were reached last summer.

The sum raised by the Middlesex Women's Club to help carry on the playground work for girls and young boys was \$657.35, the net proceeds of the Choir Festival, and \$63.50 was donated by friends interested in the work, making a total of \$720.85.

Of this total \$214 was paid to the College Club, as its share of the net proceeds of the Choir Festival; \$271.50 was paid for supervision; \$97.80 for installing six shower baths and janitor service; \$51.25 to the Cross Awning Company; \$32.34 for park settees; \$40.11 for materials used, not donated, and incidentals, leaving a balance of \$13.85 unexpended.

SUGGESTIONS OF MILDRED H. DUNN, SUPERVISOR.

One of the shelters should be arranged as a protection from storms, and a place to keep work (with drop sides, perhaps).

One section of swings should be arranged for little children.

The sand boxes should be near the shelters, that mothers may rest and watch their children. Sand boxes should have a shelf across one side.

Boys should have some apparatus on their own side of the grounds (bars, etc.).

The grounds should be fenced, and a policeman should visit it at least regularly twice daily.

Children love, and should have a wholesome opportunity for gratifying their love of adventure, so every ground should have a slide or a giant stride, or both.

The giant stride should be of a kind which runs on ball bearings.

PAIGE STREET PLAYGROUND.

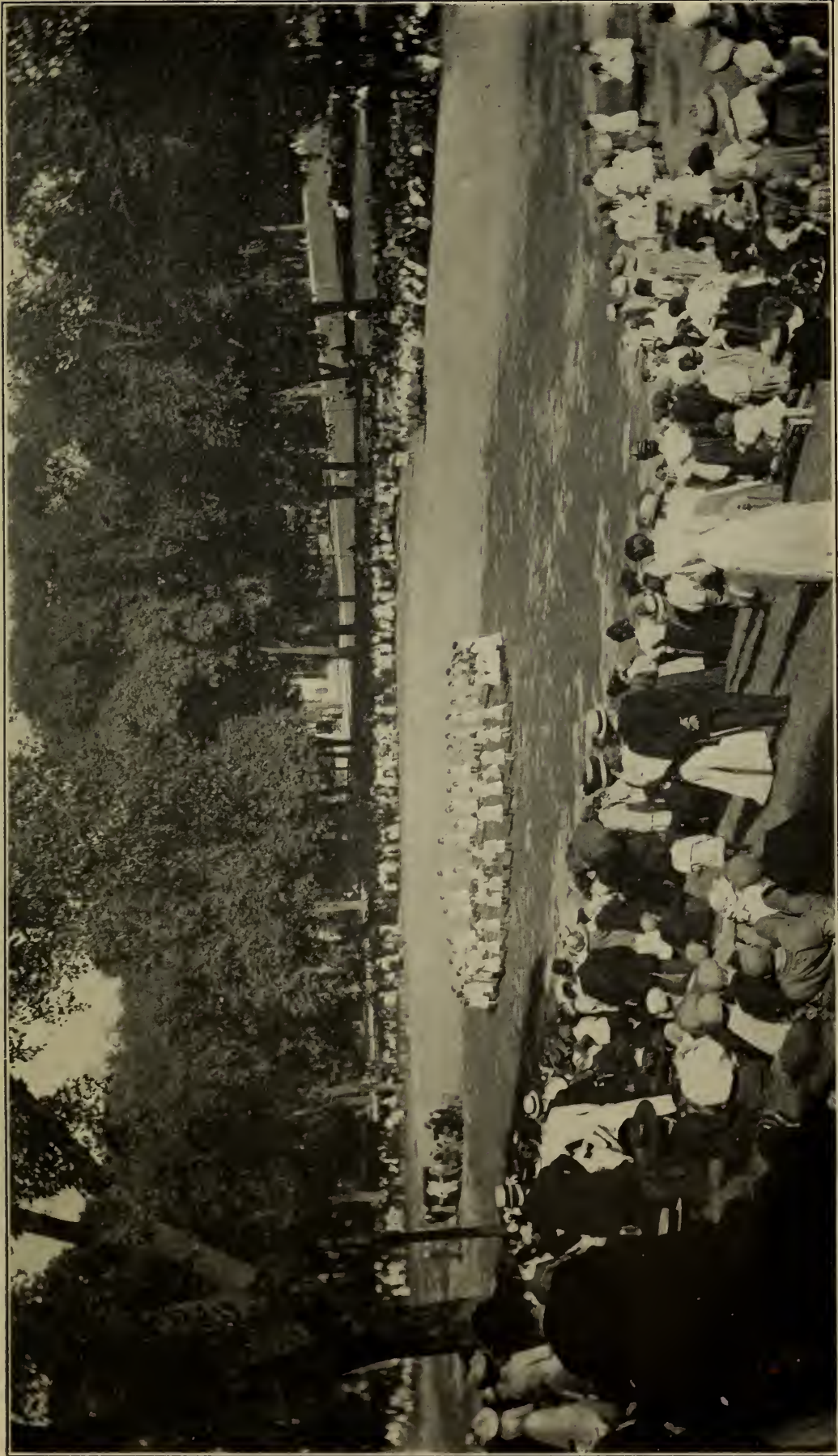
REPORT OF EUGENIE V. FRAPPIER, SUPERVISOR.

Work was begun on the Paige Street Playground with an attendance of forty-five children. The apparatus consisted of four swings, four teeters and two bean bags. The next day the attendance was sixty-five in number. This number held throughout the season. The largest attendance was eighty-two, the smallest forty-five, the average sixty-five in number. I took one hundred and five different names during the summer. The reason that I could not hold all is, obviously, that I was too few for so many. When I interested the boys the girls were neglected, and vice versa.

The ages of the girls ranged from two to fifteen years. The ages of the boys ranged from three to ten years.

We were fortunate in having a good awning and suitable settees. The awnings afford splendid shelter from the hot sun, the settees were very useful both in the industrial period and for the story-telling times. The place was reasonably well policed, and the officer anxious to keep order.

The younger children were anxious to come, the games and toys, swings, and comparative freedom in play



PLAYGROUND EXERCISES AT SOUTH COMMON

were new to them. Elsewhere they had to play alone on the curb-stone with a few pebbles, and were accustomed to run when the larger children came:

The older girls were interested in the games, folk-dances and the sewing.

The small boys were willing to play the same games, and work at the same industrial work as the girls.

It is practically impossible to do really good work and have the two sexes intermingled. While the instructor is busy with the girls the boys become mischievous, and interfere with the younger children. We could have no suitable industrial work for the boys, all that was left for them were the swings and teeters, which the younger children wanted to use, and this was the source of much trouble.

We had no caretaker to keep the playground clean, and the filth of the place on some Monday mornings was unspeakable. To remedy this the children brought old brooms, and the teacher and the pupils cleaned and scraped. Then the older boys brought shovels and piled dirt and papers, glass and tin cans in a corner, and the playground was clean for the time being.

In spite of drawbacks the children had a good time; they learned new games; they heard new stories and songs; they made pretty things out of "nice cloth of handsome colors" and raffia, and, above all, I am hoping that some of them learned it is not respectable to call names, to quarrel, to smoke and to swear.

The intercourse with the mothers was very small. Almost all who came were Polish women who could talk no English, but they seemed to be interested, and talked about the work among themselves.

One of the great needs of this playground is a man instructor to teach the boys of from ten to sixteen years of age what "fair play" means, to interest them in other

games than bullying, and to help them to learn some useful industrial work.

For the girls, I would suggest that better and more useful sewing could be done if a school room near by could be utilized. It is extremely difficult to work neatly when every passing wind scatters your material and strews it on the sand. I would suggest that a suitable place be provided for the storing away of material at the close of each day.

FAYETTE STREET PLAYGROUND.

SUGGESTIONS OF ELLA E. PRESCOTT, SUPERVISOR.

First day, average attendance, 31.

First week, average attendance, 52.

Fifth week, average attendance 78.

Full season, average attendance, 68.

There were a few afternoons when the attendance was 90.

The most popular feature was the sewing class, whose membership was 45, of which number nearly every member was present each day.

The average of attendants was approximately twelve years.

As to nationalities, there were represented some French, Greeks, and Armenians, more Irish, a few English and American. There were from fifteen to twenty Polish children.

The playground needs very much:

1. More swings.
2. A place to store chairs and materials.
3. Toilet conveniences.
4. Some kind of trespass sign, or other means to keep out the larger boys who would trespass, defying the

supervisor, hindering her work and annoying the younger children. In this connection, will say that the officer on the beat gave every assistance he could, and after a time the annoyance became less, but there was more or less trouble until the season closed.

REPORT OF ANNE LOUISE MORAN, SUPERVISOR.

TO THE PARK COMMISSION :

I have the honor to submit to you my report of the supervised play for girls on the Lowell Playgrounds during the months of July and August, 1910.

On July first the playground on the North Common was opened, on the sixth the South Common and Aiken Street playgrounds were opened. The sections of the public commons best suited for the girls' play were selected on June thirtieth, when the grounds were visited by the directors. Later in the summer grounds on Paige and Fayette Streets were made ready and directors for them obtained. The director for the Aiken Street ground was Miss Mildred H. Dunn, having as her assistant Miss Rehina G. Frappier; the director for the North Common ground was Miss Mabel Dockendorff, with Miss Rose Geary as assistant; the director at the South Common ground was Miss Gretchen Billings, with Miss Dorothy Coggeshall as assistant. Miss Eugenia Frappier was the director of the Paige Street ground, and Miss Prescott the director of the Fayette Street ground. On no day during the summer, with the exception of the weekend intermission, was any one of the grounds unsupervised. On all of the grounds the afternoon attendance was decidedly greater than that of the morning. The attendance on Saturday morning was very small, most of the children having extra duties at home on that day.

The hours for supervised play were from nine to eleven o'clock in the morning and from two to five o'clock in the afternoon; on Saturday afternoons there was no session.

The ages of children attending ranged from babies to girls sixteen years old. The aim, especially on the North and South Common, was to gather together and to keep together all the girls of playground age who came on to the commons. This, with few exceptions, was easy to accomplish. In a few cases the younger girls would stray, in the South Common to the pool, and on the North Common to remote corners, and in a very few cases a group of older girls would be found outside of the section set aside for the girls' play, talking with older boys and young men resting there on the commons. The directors were persistent in their attention to these conditions, and very shortly they ceased to exist, so that the grounds presented no scattering effect of girls playing here and there, but the concentrated effect of their playing, all safely under the care of splendid young women whom they very soon loved.

This matter in itself seems to demonstrate the success of the Lowell Playgrounds, for, without fencing of any kind, and voluntarily, the children kept in the section where the play was supervised. The people who live in the playground districts have said that they have never known a summer when the streets were so free of children; appreciating the quiet, as well as the knowledge that the children were playing in much safer places and under much better conditions.

Early in the season, on the South Common, it was thought essential, in order to impress upon the minds of those who used the Common the fact that the apparatus placed there was for the children only, and that they should be permitted to use it unannoyed, to have a special officer on duty for a few hours in the afternoon. For a



PLAYGROUND EXERCISES AT SOUTH COMMON

few days an officer was obtained, and after that there was little trouble, as one of the park caretakers had been given an officer's badge.

Later in the season, on a few occasions, somewhat annoying conditions arose on the North Common and at Aiken Street, which would not have existed if an officer could have been spared to spend a short time on these playgrounds for a few hours each afternoon, when the number who used the grounds was greatest. During another season it would seem necessary, in order to accomplish the best results, to have such protection, or, better still, to have a strong high fence (with gates) surrounding the section of the grounds set aside for the girls' use. By this means much time and energy would be saved from the otherwise necessary efforts of keeping for the children their rights.

The great need for bathing facilities became apparent early in the season. A set of shower baths was installed in the basement of the Eliot School. The use of these was reserved for girls in the morning, girls from both the North and South Commons being accommodated; a director was always present. These baths filled a great want, but in order to get the greatest benefit from them hot water would be really necessary. Only the strongest girls were able to use them, and then for a very short period only, as the shock from the cold water was too great for them. With the water made moderately warm, even the smallest children could bathe with safety, and the older ones would get more enjoyment and exhilaration from them, to say nothing of the greater cleansing power which warm water has. The necessity of such baths was felt on the Aiken Street ground, where there is more dust and sand:

Having so nearly the same children each day during the summer, much industrial work was accomplished, and

the work proved to be very popular. Practically every scrap of material which was provided was used. Instruction was given in plain sewing, seaming, gathering, over-casting; in embroidery; in cardboard construction; in paper-cutting and folding; in bead work; in knitting; in sewing cards for the very youngest children; in raffia work; in reed and raffia basket weaving and cane-seating for the older girls.

During the last three days of August the exhibit of industrial work was displayed in two show windows of Dow's Drug Store on Merrimack Street. Many thanks are due Mr. Dows for the privilege of using these windows and for his cordial attitude toward the directors who arranged the windows.

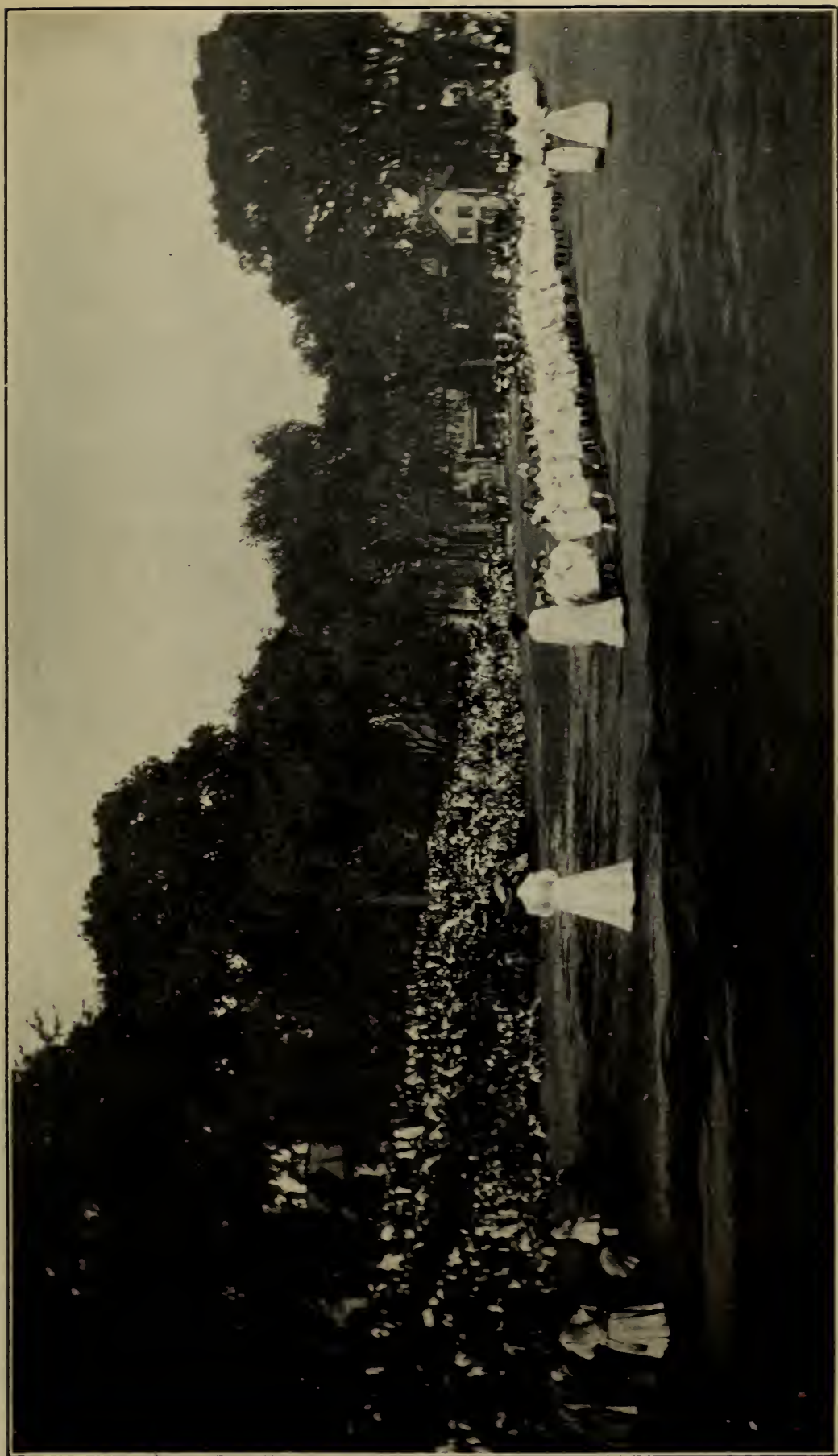
The exhibits contained a few examples of each kind of work done on the grounds, including patchwork quilts, paper dolls, dressed dolls, dolls' houses, dolls' furniture, dolls' hats of raffia, and trimmed, reed table mats, muslin, gingham, calico, raffia and silk sewing bags, bead necklaces and bracelets, cut paper work, pin wheels, embroidered belts, collars and collar tabs, embroidered sofa pillow covers, children's and dolls' aprons, children's simple gingham dresses, raffia and reed baskets and trays of different designs, pin cushions, cane-seating, baby carriage robes, etc. The display attracted a great many people, who seemed very much interested. Better facilities are desirable for carrying on the industrial work. The plan at first was to keep the work and the material in the play rooms of school buildings nearest the grounds. As time went on, it was shown that this plan was impracticable on account of the distance and the amount of work to be carried, which was always falling from overflowing boxes. The point is that proximity of material, work and workers is essential in order to keep each child occupied and supplied with materials, to keep its mind and fingers en-

gaged during the periods set aside for industrial work, for the minute one child finds it has nothing to do, it becomes restless and an annoyance to the others who are working, and should two or three or four become unoccupied confusion might easily be the result. If, then, each ground could be supplied with a shelter or set of shelters, such as are used on the Aiken Street playground, and a number of benches could be arranged under each shelter, work could be carried on except in particularly stormy weather. Many times during the summer the ground was too damp for the children to sit on, so the industrial program for the day would have to be omitted, much to the disappointment of the older girls, who felt that they were capable of more than using the whole day for play, which was the only part of the day's order which could be carried out in damp weather. With this shelter from the sun, the sudden showers, and the slight rains and mist, the day's program would be only slightly interfered with. A closet with shelters and a door would be practical to hold industrial work and materials; this closet could be placed under one of the shelters, and would then be convenient to the group working. If the use of the school rooms could be obtained for a few hours a day, the work could be carried on well there. The only objection would be that it would be keeping the children indoors somewhat long periods at a time. The use of a good light school room is, however, desirable for other purposes, such as meetings of the mothers. During the past summer, the mothers' special meetings, when a speaker was present, had to be held in the basements, which were not suitable, for no other place was available.

The shelters on the Aiken Street ground would be made much more serviceable if they could be fitted with shields of either canvas or glass to protect the working groups from the sand which, at times, blows badly on this

ground, and from the winds which come from along the river and which blow and scatter the children's work. If these shields could be of glass they would not shut out the light, and there would be no confusing flapping that would be found if the canvas protection was used.

A meeting of the women directors was held once a week, in order to keep the work on all of the playgrounds somewhat uniform. Each playground had different characteristics and conditions, so that absolute unity in working from of the different grounds was not strived for. At these meetings there was always a generous giving of help from one director to another; if a game had proved particularly successful on one ground, its director gladly gave her methods for making it so. If one kind of industrial work proved especially interesting, the design and details were given freely. There was no striving to make one's own ground the best ground in a selfish way, but combined efforts were used to make not one but all of the playgrounds of Lowell the best possible. The Play Festival at the close of the season, when all of the children gathered together from all of the grounds, had the effect of combining their little energies to make, not only their work, but the work done by any one, on any ground, as good as it could be made. Each child almost forgot that she belonged to one special playground, so wholly did she enter into the work and play of all. This spirit should be fostered; there should be absolutely no competition between the girls of the different grounds, but they should be made to feel that what one playground is doing for the girls who live near it, another playground is doing for the girls who are most convenient to that. Lack of competition will not mean lack of loyalty. Perhaps, on the whole, the chief characteristic of each playground was the staunch loyal little heart which each child had for her director, so fully did each instructor enter into the life of



CHILDREN'S MARCH AT SOUTH COMMON PLAYGROUND

each child, which, considering that each director had between three hundred and four hundred children enrolled, was somewhat remarkable.

Tickets, in addition to those given by the Street Railway Company, were donated, and with these groups from each ground were given free trolley rides out into the country, a director going with each group. The children were delighted with these trips, and were eager to learn the names of all of the flowers which they found and the birds which they saw. Some girls did not know even the Golden Rod. One small girl saw a bird's nest in the top of a pine tree. She was delighted to be allowed to climb to get it, and also to exhibit it in the display at the close of the season.

The mothers' days were well attended by mothers and older people interested in the children; in fact, on all the grounds, every day was mothers' day. On the hot afternoons many mothers would come and rest with their babies and watch the children work and play. Many mothers expressed their appreciation of what the summer had meant to them by having their children so cared for. On special days physicians met the mothers, talked with them, attended any cases which needed attention and arranged for treatment at hospitals, if treatment were necessary. To those physicians we are particularly grateful, as are the mothers whose children they helped; this gratitude was also evinced for the supervisors and attendants at the Milk Station for their hearty co-operation. There was no accident or injury reported during the hours of supervised play on any playground.

The Folk Dancing was one of the popular features during the summer. It was thought better for this recreation, which demands order and music, to have the practice for short periods indoors. The playgrounds in the basements of the Eliot and Morrill Schools were used

for this purpose, the Aiken Street children using, on certain days, the Morrill School. If it would be possible to obtain the use of light upper halls or rooms in the school buildings it would be much more desirable, for the basements having low windows made it possible to have the light inside practically cut off by groups of children crowding up to the windows to watch. Then, too, the floors being of cement are much more tiring to the feet than wood floors would be. The large groups of children who used these basement playrooms made it at times impossible to admit visitors, who came in large numbers, and it is through the interest of the mothers and citizens in general that, in a measure, energy is sustained to accomplish all which one hopes to accomplish. We thank all of the people in Lowell who came with their interest and enthusiasm to visit the grounds. The help given by the janitors of the Morrill and Eliot Schools cannot be estimated; the perfect condition in which the playrooms were kept, and their cheerful assistance in any little matter, was appreciated by the workers, children and visitors alike.

The success of the Folk Dancing was made possible by the kindness of the Grunewald and Steinert Piano Companies, each company donating the use of an excellent piano during the summer. We have to thank in a special manner, Miss Mary Carolyn, a Normal School pupil, who served as pianist during the whole summer, and the Notre Dame Orchestra and Miss McNabb, Miss Barnes and Mrs. Whittet, who played often for the children during their practice.

On the thirtieth of August a Play Festival of Dances, Games and Drills was given in the natural amphitheatre on the South Common. The support of Mr. Whittet, the Superintendent of Parks, and his assistants, was felt in arranging for these exercises, as it had been on any occa-



CHILDREN AT POND ON SOUTH COMMON

sion during the season when we needed assistance. The day on which the Festival was held was perfect, and thousands of people came to watch the results of the children's supervised play.

We, the directors, wish to thank in a measure which at best can be only inadequate, Miss Elizabeth C. Kennedy and Miss Mable Metcalf and the members of the Middlesex Women's Club, and particularly those who served as volunteer helpers, and Mrs. Lambert and the members of the College Club, and here, too, particularly those who served as helpers, for their inestimable service to the children and to us during the summer. We wish to thank also all of the merchants and people of Lowell who have been so generous in their donations for materials for the playgrounds. We also appreciate and wish to thank the men supervisors, our fellow workers, for their co-operation.

To you, the members of the Board of Park Commissioners, we wish to express our gratitude for the sympathy and support which we have at all times received from you.

LOWELL, MASS., December 31, 1910.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

We have the honor to submit to you a report of the expenditures of the Department of Parks of the Appropriation for Little Canada Park and Playground.

Balance of 1909 Appropriation	\$500.00
Additional appropriation of 1910	3,000.00

Total	\$3,500.00
Expended for labor	\$11.41
Expended for material and supplies	129.55

	\$140.96

Balance	\$3,359.04

TO WHOM AND FOR WHAT MONEY WAS PAID
OUT DURING THE YEAR.

To Whom	For What	Amount
Proprietors Locks & Canals Co.	lease	\$5.00
H. C. Girard	hardware	.55
The H. R. Barker Mfg. Co.	fittings and castings	124.00
		— — —
		\$129.55

Respectfully submitted,
JOHN E. DRURY, *Secretary.*

LOWELL, MASS., December 31, 1910.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

We have the honor to submit to you a report of the expenditures of the Department of Parks of the Appropriation for the North Common Drainage System.

Original appropriation	\$2,050.00
Expended for labor	\$1,151.73
Expended for material and supplies	898.27
	— — — — \$2,050.00

TO WHOM AND FOR WHAT MONEY WAS PAID
OUT DURING THE YEAR.

To Whom	For What	Amount
Daniel T. Sullivan	cement	\$32.00
Engineers' Department	engineering	90.74
C. B. Coburn Co.	oil, lanterns and wicks	5.83
Pevey Foundry Co.	castings	178.63
Edward Cawley	pipes and bends	276.70
Bartlett & Dow	hardware	6.69
Pratt & Forrest Co.	lumber	1.11
E. A. & A. T. Smith	concrete	30.50
E. P. Bryant	sharpening picks	1.70
C. H. Hanson & Co., Inc.	team hire	20.00
E. A. Wilson & Co.	cement pipe and bricks	254.37
		— — —
		\$898.27

LOWELL, MASS., December 31, 1910.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

We have the honor to submit to you the report of the expenditures of the Department of Parks of the Appropriation for the North Common Drinking Fountain.

Original appropriation	\$300.00
Expended for labor	\$90.44
Expended for material and supplies	209.56
————	\$300.00

TO WHOM AND FOR WHAT MONEY WAS PAID
OUT DURING THE YEAR.

To Whom	For What	Amount
The Ashton Valve Co.	fountain head, complete	\$12.00
John P. Meehan Co.	sanitary fountain	142.50
American Express Co.	express	.30
The H. R. Barker Mfg. Co.	pipe and fittings	12.90
Lowell Water Works	hydrant box and fittings	12.83
Edward Cawley	cement pipe	7.70
E. A. Wilson & Co.	brick and cement	21.33
	————	\$209.56

Respectfully submitted,

JOHN E. DRURY, *Secretary.*

LOWELL, MASS., December 31, 1910.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

We have the honor to submit to you the report of the expenditures of the Department of Parks of the Appropriation for Fort Hill Base-ball Grounds.

Original appropriation	\$1,000.00
Expended for labor	\$938.01
Expended for material and supplies	61.99
————	\$1,000.00

TO WHOM AND FOR WHAT MONEY WAS PAID OUT DURING THE YEAR.

To Whom	For What	Amount
E. P. Bryant	sharpening drills, picks, etc.	\$37.00
Boutwell Bros., Inc.	chains, hammers, etc.	20.84
Bartlett & Dow	plow point	4.15
		<hr/>
		\$61.99

Respectfully submitted,

JOHN E. DRURY, *Secretary.*

LOWELL, MASS., December 31, 1910.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

We have the honor to submit to you a report of the expenditures of the Department of Parks of the Appropriation for Playgrounds.

Original appropriation	\$1,500.00
Expended for labor	\$809.10
Expended for material and supplies	690.90
	<hr/> \$1,500.00

TO WHOM AND FOR WHAT MONEY WAS PAID OUT DURING THE YEAR.

To Whom	For What	Amount
John C. Bennett	paint	\$3.00
Charles A. Whittet	railway expenses	4.29
New Eng. Tel. & Tel. Co.	telephone	1.66
Western Union Telegraph Co.	telegram	.60
Arthur Leland	apparatus	232.00
Boston & Maine Railroad	freight	23.70
Beggs & Cobb Tanning Co.	tan bark	25.00
W. A. Maek Co.	lining slide	10.00
Davis Printing Co.	printing	4.50
C. H. Hanson Co. Inc.	teaming	2.50
C. B. Coburn Co.	asphaltum	1.00

To Whom	For What	Amount
Amasa Pratt Co.	lumber	16.50
Bartlett & Dow	hardware	.61
Dana W. Stockbridge	posters	7.00
The H. R. Barker Mfg. Co.	pipe	85.83
W. P. Brazer & Co.	apparatus and supplies	272.71
		— — —
		\$690.90

Respectfully submitted,

JOHN E. DRURY, *Secretary.*

LOWELL, MASS., December 31, 1910.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

We have the honor to submit to you a report of the expenditures of the Department of Parks of the Appropriation for Moth Extermination.

Original appropriation	\$9,000.00
Expended for labor	\$6,210.51
Expended for material and supplies	\$2,789.49
	— — — — \$9,000.00

TO WHOM AND FOR WHAT MONEY WAS PAID OUT DURING THE YEAR.

To Whom	For What	Amount
Barrett Mfg. Co.	creosote	\$18.00
American Express Co.	express	1.50
Boston & Maine Railroad	freight	5.90
C. B. Coburn Co.	cord, gasoline, etc.	66.69
Bartlett & Dow	pruners, blades, springs, etc.	72.49
Pratt & Forrest	moth poles	55.99
Park Department	horse hire	119.00
Frost Insecticide Co.	climbing irons	7.50
The H. R. Barker Mfg. Co.	pipe fittings	12.62
Charles A. Whittet	railway expenses	13.82
Manchester & Concord Ex. Co.	express	2.15
E. Porter Felt	two volumes on insects	4.00
Tucke & Parker	batteries and brushes	5.10

To Whom	For What	Amount
New Eng. Tel. & Tel. Co.	telephone	\$1.37
Olds Gas Power Co.	power sprayer and fittings	1,111.60
Dumas & Co.	moth books and cards	42.31
Scripture's Laundry	washing	1.35
C. H. Hanson & Co. Inc.	horse hire	321.05
Automatic Pruner Co.	pruners	4.15
Talbot Dyewood & Chemical Co.	arsenate of lead	672.25
George E. Hutchins	hose, washers and nozzles	15.65
The Thompson Hardware Co.	grease cups	1.00
W. A. Mack Co.	funnel	.35
J. H. Sparks	team hire	3.00
Geo. H. Bachelder	chain and repairs	2.50
E. P. Bryant	iron work	5.00
Wright & Potter Printing Co.	printing	42.00
Boston Engineer's Supply Co.	engine jacket	3.25
G. C. Prince & Son, Inc.	postage stamps	126.00
Davis Printing Co.	printing	41.90
		— — — —
		\$2,789.49

Respectfully submitted,

JOHN E. DRURY, *Secretary.*

LOWELL, MASS., December 31, 1910.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

We have the honor to submit to you a report of the expenditures of the Department of Parks of the Appropriation for the Improvement of School Grounds.

Original appropriation	\$500.00
Expended for labor	\$392.53
Expended for supplies	107.47
	— — — —
	\$500.00

TO WHOM AND FOR WHAT MONEY WAS PAID
OUT DURING THE YEAR.

To Whom	For What	Amount
W. B. Whittier & Co.	trees and shrubs	\$44.50
Charles A. Whittet	railway expenses	2.10

To Whom	For What	Amount
N. Y., N. H. & Hartford R. R.	freight	1.07
E. F. Hathaway	signs	2.00
J. B. Cover & Co.	seed oats	2.80
Robin Hill Nursery	shrubs	55.00

		\$107.47

Respectfully submitted,

JOHN E. DRURY, *Secretary.*

LOWELL, MASS., December 31, 1910.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

We have the honor to submit to you the report of the expenditures of the Department of Parks of the Appropriation for Care of Trees.

Original appropriation	\$800.00
Expended for labor	\$634.39
Expended for material and supplies	165.61

	\$800.00

TO WHOM AND FOR WHAT MONEY WAS PAID
OUT DURING THE YEAR.

To Whom	For What	Amount
C. B. Coburn Co.	oil and rope	\$12.38
H. L. Gonzales	sharpening saws	2.75
Fred C. Church	insurance	55.72
Pratt & Forrest	lumber	3.12
C. H. Hanson & Co., Inc.	horse hire	22.50
John C. Bennett	rope	6.94
E. P. Bryant	bolts and repairs	7.67
C. N. Rice	sharpening saws	19.75
Bartlett & Dow	tools	33.28
Salois & Leith	iron hooks	1.50

		\$165.61

Respectfully submitted,

JOHN E. DRURY, *Secretary.*

LOWELL, MASS., December 31, 1910.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

We have the honor to submit to you the report of the expenditures of the Department of Parks of the Appropriation for Little Canada Drinking Fountain.

Original appropriation	\$100.00
Expended for fountain and labor to Lowell Water Works ..	100.00

Respectfully submitted,

JOHN E. DRURY, *Secretary*.

LOWELL, MASS., December 31, 1910.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

We have the honor to submit to you a report of the expenditures of the Department of Parks of the Appropriation for Repairing and Raising Walks on the North Common.

Original appropriation	\$1,000.00
Expended to E. A. & A. T. Smith, for concreting and raising walks	1,000.00

Respectfully submitted,

JOHN E. DRURY, *Secretary*.

LOWELL, MASS., December 31, 1910.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

We have the honor to submit to you a report of the expenditures of the Department of Parks of the Appropriation for Shedd Playground.

Original appropriation	\$10,000.00
Expended for labor	\$2,390.10
Expended for material and supplies	\$1,370.24
	----- 3,760.34
Balance	\$6,239.66

TO WHOM AND FOR WHAT MONEY WAS PAID OUT DURING THE YEAR.

To Whom	For What	Amount
John Brady	teaming	\$81.88
E. P. Bryant	teaming & sharpening tools	267.37
Adams Hardware & Paint Co.	tools	130.65
W. E. Hatch	grade stakes	13.00
New Eng. Tel. & Tel. Co.	telephone	1.32
B. W. Johnson	teaming	69.38
Lowell Water Works	pipe, etc.	150.08
Edward Cawley	teaming and cement	57.70
Bartlett & Dow	tools	25.60
Burnham & Davis Lumber Co.	lumber	170.59
James Whittet	carpenter work	99.45
E. F. Hathaway	signs	7.50
John J. Gray	teaming	11.00
Connors Brothers	teaming	20.00
E. W. Bowditch	professional services	264.72
		— — —
		\$1,370.24

Respectfully submitted,

JOHN E. DRURY, *Secretary.*

LOWELL, MASS., December 31, 1910.

TO HIS HONOR THE MAYOR AND THE CITY COUNCIL OF THE
CITY OF LOWELL, MASS.

Gentlemen:—

We have the honor to submit to you a report of the expenditures of the Department of Parks of the Appropriation for Anne Street Ornamental Grounds.

Original appropriation	\$1,200.00
Expended for labor	\$731.51
Expended for material and supplies	468.49
	— — — —
	\$1,200.00

TO WHOM AND FOR WHAT MONEY WAS PAID OUT DURING THE YEAR.

To Whom	For What	Amount
Engineer's Department	services	\$21.26
Olmsted Brothers	plans	53.49
Charles A. Whittet	railway expenses	1.72
New Eng. Tel. & Tel. Co.	telephone	.44
Edward Cawley	cement and brick	12.50
Fred Jenness	sod	29.73
Lowell Co-operative Association	manure	8.86
Lowell Water Works	pipe, etc.	15.30
The H. R. Barker Mfg. Co.	piping, etc.	18.05
W. A. Mack Co.	water pot	.50
Park Department	teaming	17.00
John Brady	teaming	55.00
Bennett Bros. Co.	street washer	6.15
Ashton Valve Co.	fountain head, complete	12.00
Hamilton Mfg. Co.	cinders	1.75
John P. Meehan Co.	granite cutting	10.00
American Express Co.	express	.30
Bartlett & Dow	grass seed	10.00
New England Nursery Co., Inc.	shrubs	76.00
Mrs. C. A. Frost	manure	14.13
E. P. Bryant	sharpening picks	17.15
Robin Hill Nursery	shrubs	6.75
Harry Parker	manure	2.97
Henry A. Dreer	bulbs	16.13
Boston & Maine Railroad	freight	.81
C. H. Hanson & Co., Inc.	teaming	17.00
Ames Plow Company	park seats	59.50
		— — —
		\$468.49

Respectfully submitted,

JOHN E. DRURY, *Secretary.*

SIXTY-SIXTH ANNUAL REPORT
OF THE
LOWELL CITY LIBRARY

TWENTY-FIRST REPORT
OF THE
LIBRARY TRUSTEES
OF THE CITY OF LOWELL
MASSACHUSETTS



FOR THE YEAR NINETEEN HUNDRED TEN

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Report of the Trustees for 1910

To the Honorable, the City Council of Lowell:

GENTLEMEN: The Trustees of the City Library herewith present their annual report for the year 1910.

FINANCIAL STATEMENT

RECEIPTS

Balance from previous year	\$ 3.38
Appropriation by City Council	15,000.00
Interest on Deposit	75.44
Fines and other receipts.....	443.48
	<hr/>
	\$15,522.30

EXPENDITURES

Salaries	\$ 9,918.27
Lighting	986.45
Binding	1,124.93
Books	846.47
Periodicals	770.11
Sundries—Printing	\$555.93
Water Tax	13.50
Library Art Club	8.00
Express, &c.	56.68
Supplies	367.70
Postage	62.80
Box Rent	8.00
Miscellaneous	78.18
Lighting Plant	188.18
Power	156.22
Repairs, etc.	310.70
	<hr/>
	1,805.90
Cash on Hand	70.17
	<hr/>
	\$15,522.30

LIBRARY TRUSTEES' REPORT OF 1910

JOHN DAVIS FUND—INCOME FOR 1910

Cash on hand at last report	\$ 4,146.76
Interest and dividend earnings on investments and loans	4,285.04
From re-payment of loan to General Library Fund	3,000.00
Liquidation dividends No. 9 and No. 10 National Bank of Republic	80.00
Cash received from Merrimack River Savings Bank	1,177.23
Cash received from City Institution for Savings	300.00
From sale of rights attaching to 41 shares of Boston and Maine Common Stock	115.85
Refund of taxes on National Bank shares	84.33
	<hr/>
	\$13,189.21

EXPENDITURES

For temporary loan to General Library Fund in anticipation of annual appropriation of City Council	\$ 3,000.00
Expenses of Children's Room	636.00
Expenses of Sunday Opening	360.41
Books purchased for the Library	3,281.08
Boston and Maine 4½ bonds purchased	5,240.00
Deposit in Central Savings Band on account 35075 for Sinking Fund	100.00
Auditing	25.00
Cash on hand January 1, 1911	546.72
	<hr/>
	\$13,189.21

THE WORK OF THE YEAR

According to an article in the August 1910, Library Journal:
"The general decrease in circulation which has been reported throughout the country, has been attributed to several causes. One librarian considers that it is chiefly due to the increase in prosperity and the popularity of the nickel theatres, and this opinion has been upheld by others. Statistics of circulation

have held heretofore an almost unduly prominent place in library records and a keener realization that the usefulness of the library cannot be measured by the number of book issues may tend towards a strengthening of library efficiency."

The circulation of books for the year was 128,154, a decrease of 2,267 from the preceding year. The decrease has been chiefly in the use of fiction. Libraries everywhere are reporting similar losses. One of the reasons for it is doubtless due to the fact that libraries are finding that their funds are insufficient to meet the popular demand for the newest fiction. As a consequence the booksellers' circulating libraries, with their rental of two cents a day on each volume, are gradually solving the problem. To meet the public demand for current popular novels many libraries are establishing duplicate pay collections and are renting popular books in the same manner as the booksellers' libraries. Libraries that have this system in use are unhesitatingly in favor of it and say that it solves the fiction question to the satisfaction of the public and to the advantage of the library. The adoption of this system has been under consideration of the Trustees as the fund available for the purchase of new fiction is entirely inadequate to satisfy the popular demand.

PUBLICITY

The library has published each week in three of the local papers its list of additions for the week. The publication of Special Lists has been continued and in addition to the lists on Lincoln and Textiles published last year have been added lists on Gardens and Gardening, French Fiction, Ireland and in co-operation with several libraries a list of Practical books for practical boys. These lists have been mailed to people known to be interested in the subjects treated and have been freely distributed at the library.

NEEDS OF THE LIBRARY

The greatest need of the library today is for means which will enable it to serve a larger clientage. The continued growth of the city makes the demand each year more imperative. The best means of extending the usefulness of the library is undoubtedly by branch libraries which should be reduced copies of the central library. Such libraries should be well equipped with books from which to choose, a fair supply of magazines, a few works of reference from which general questions may be answered and a separate room for the children. Whatever good influence may be exercised by the central library should be equally apparent in its branches.

A beginning should be made by the establishment of at least two branches, located wherever it may seem advisable. The use of such branches would, at once, we believe, show their importance and demonstrate the possibilities of the local field.

DELIVERY STATIONS AND DEPOSIT LIBRARIES

Next in importance to branch libraries as means of extending the library's influence, though much inferior to them, are delivery stations. These are merely agencies of the library established usually at some store where books to be returned to the library may be left and new books may be received from the main library.

DEPOSIT LIBRARIES

These are usually established at some institution, school or factory for the benefit of those connected with such institution. A number of such libraries should be established in our city, but activity of the library in this direction is impossible until the supply of books available for such a purpose is greater than at present.

INDUSTRIAL LIBRARY

There should be established in the library in a separate room, if any can be made available for the purpose, an industrial library where all the modern literature relating to the industrial and mechanical arts together with the files of the bound and unbound periodicals could be freely accessible to the many artisans of our city. The Gazette and Specifications of the Patent office would, of course, be transferred to this room where they would be of more service than in their present crowded location.

An industrial library would enable us to co-operate to better advantage with the work of the Textile School and would be of the greatest benefit to any mechanic endeavoring to increase his knowledge and so better his position. The part that the library would play in the upbuilding of our city would, with such a room, be an important one.

ANNUAL REPORT OF THE CHILDREN'S ROOM

CITY LIBRARY, LOWELL, MASS.,
January 9, 1911.

TO THE TRUSTEES:—

From a small beginning, with a few hundred books, taken largely from the stacks, the Children's Room collection now numbers 3088 volumes, including reference books and magazines.

The attendance and circulation have been commensurate with the growth of the collection, increasing or decreasing (especially during the winter months) in direct ratio to the number of volumes available for use.

Circulation, 1910	24,119	VOLS.
Largest daily circulation, (Nov. 5th)	196	"
Smallest daily circulation (Aug. 24th)	27	"
Daily average for year	81	"
Largest daily average for any one month (Nov.)	115	"
Smallest daily average for any one month (Aug.)	64	"

LIBRARY TRUSTEES' REPORT OF 1910

Attendance recorded for 1910	57,079
Largest attendance during any one day (Nov. 26th)	481
Smallest attendance during any one day (July 12th)	64
Largest number of children ever counted in room at one time (Friday, p. m., Dec. 30th)	108

At the beginning of the school year, a loan exhibit from the U. S. Forestry Department was displayed, bringing to light the fact that through their school instruction, a large number of children were interested in forestry and lumbering; and creating a demand for books on those topics.

There has been a marked increase, during the past year, in the attendance and patronage of the teachers of our public schools, and in reference work among the pupils. A subject index is being prepared which will greatly facilitate such work.

It would be desirable to augment the number of reference books in this department.

Upon request, a number of the children have made out lists of books read and enjoyed by them, which will be useful when arranging a list for printing.

The children are learning, more and more, how to assist in the care of the room, and take pride in making it look tidy.

We are ready for an advance whenever a larger work may be deemed advisable.

BERTHA G. KYLE,
Children's Librarian.

LIBRARY TRUSTEES' REPORT OF 1910

EXHIBITIONS

Classic Art	Famous Pictures
Corot	Transportation
Medici Women	English Photogravures
Unger Etchings No. 2	Pompeii
One Hundred Famous Men	Jamaica
Coal and Coke	Historical Dress in America
Despots of Italy	Old Hollandish Interiors
Ungers Etchings No. 3	

ANNOUNCEMENTS

Library and Reading Rooms open from 9 a. m. to 9 p. m., except on legal holidays.

Reading Rooms open Sundays, 9 a. m. to 9 p. m.

Library open Sundays for reference use only, 2 to 9. p. m.

The regular meeting of the Trustees of the Library is held on the first Monday evening of each month, at 7.30 o'clock.

CONTENTS OF THE LIBRARY, CLASSIFIED

CLASS OF BOOKS	No. Vols.
General Works	1,926
United States Government Publications	6,396
Magazines	10,823
Philosophy	1,321
Theology	4,034
Sociology	4,056
Philology	461
Science	3,182
Useful Arts	2,940
Fine Arts	3,618
General Literature	8,606
Biography	6,435
History, Description and Travel	12,218
Genealogy and Heraldry	438
Fiction	14,705
Standard Library	1,100
Total	82,259

LIBRARY TRUSTEES' REPORT OF 1910

CONDITION OF THE LIBRARY

Volumes purchased during the year	2,451
Volumes added by gift	166
Volumes added by binding periodicals	341
Worn-out books replaced	84
Duplicates purchased	281
Total number of volumes added	2,593
Total number of volumes in the Library	81,863
Periodicals and papers subscribed for	204
Periodicals and papers given	29
Number of volumes used, home and reference	128,154
Number of volumes consulted in the Reference Room	11,234
Number of postcards sent to delinquents during the year	3,835
Library open, days	300
Total circulation	128,154
Average daily circulation	427
Largest monthly circulation (November)	12,619
Smallest monthly circulation (July)	7,873
Largest daily circulation (February 26)	866
Smallest daily circulation (July 12)	180
Percentage of fiction read	73.8
Percentage of other classes	26.2

NEW REGISTRATION WITH THREE YEAR LIMIT, APRIL 1, 1910

Applicants received during the year	3,546
Applicants who did not call for cards	56
Number of names registered Dec. 31, 1909	3,546
Number of names registered Dec. 31, 1910,	7,036
Total registered during the year	3,490
(New..... 1,829. Renewed..... 1,661)	

LIBRARY TRUSTEES' REPORT OF 1910

LIST OF NEWSPAPERS AND PERIODICALS CURRENTLY
RECEIVED

ABBREVIATIONS: D—DAILY; M—MONTHLY; Q—QUARTERLY;
W—WEEKLY

- | | |
|---|--|
| America | American Monthly. |
| American Academy of Political and
Social Science. Annals | American Naturalist, m. |
| American Architect, International
Ed, w. | American Primary Teacher, m. |
| American Boy | American Printer, m. |
| American Catholic Quarterly Review | American Shoemaking |
| American City | Annual Literary Index |
| American Cultivator, w. | Architecture, (L') |
| American Engineer and Railroad
Journal, w. | Architectural Record |
| American Homes and Gardens, m. | Arena, m. |
| American Journal of Psychology, q. | Army and Navy Journal, w. |
| American Journal of Science, m. | Art de la Mode, m. |
| American Machinist, w. | Art et Decoration |
| American Magazine m. | Art Journal, m. |
| | Athena |
| | Athenaeum, w. |
| | Atlantic Monthly |
| Bankers' Magazine, m. | |
| Benziger's Magazine, m. | Boston Herald, d. |
| Birds and Nature, m. | Boston Journal, d. |
| Blackwood's m. | Boston Medical and Surgical
Journal, w. |
| Bookman, m. | Boston Pilot, w. |
| Bookman, English Ed., m. | Boston Post, d. |
| Book Prices Current, American
Annual | Boston Record, d. |
| Boston Advertiser, d. | Boston Transcript, d. |
| Boston Commercial Bulletin, w. | Boston Traveller, d. |
| Boston Globe, d. | Building Age |
| | Bulletin of Bibliography |
| Cabinet Maker, m. | |
| Canal Record (Gift), w. | Churchman, w. |
| Catholic World, m. | Collier's Weekly |
| Century Magazine, m. | Concrete (Gift), m. |
| Chambers' Journal, m. | Congregationalist, w. |
| Chautauquan, m. | Contemporary Review, m. |
| Chemical News, w. | Correspondent (Le), SEMI-M. |
| Christian Endeavor World, w. | Cotton |
| Christian Register, w. | Courrier des Etats-Unis, w. |
| Christian Science Journal (Gift), m. | Country Life in America, m. |
| Christian Socialist | Cosmopolitan Magazine, m. |
| Christian Science Monitor | Current Literature, m. |
| | Craftsman, m. |

LIBRARY TRUSTEES' REPORT OF 1910

Dyer and Calico Printer, M.

Dial, SEMI-M.

Eastern and Western Review, (Gift)
Educational Review, M.
Edinburgh Review, Q.
Eclectic Magazine, M.
Electrical Review, W.
Electrical World, W.

Electrician and Mechanic
Engineering and Mining Journal,
Engineering News, W.
Engineering Record, W.
Everybody's Magazine, M.

Fall River News, D.
Federation Bulletin
Fibre and Fabric, W.
Figaro

Figaro Illustre
Forest and Stream, W.
Fortnightly Review, M.
Forum, M.

Garden Magazine
Gazette des Beaux-Arts

Good Housekeeping
Graphic, W.

Hampton's Magazine
Harp
Harper's Bazar, W.
Harper's Magazine, M.

Harper's Weekly
Horseless Age, W.
House Beautiful, M.
House and Garden, M.

Illustrated London News, W.
Illustration (L')
Independent, W.
Industrial Review and Textile Re-
porter, M.

Inland Printer, M.
International Journal of Ethics, Q.
International Studio, M.
Inter-Ocean, W.

Johns Hopkins University Studies, M.
Journal of Education, W.
Journal of Franklin Institute, M.
Journal of the Knights of Labor, M.

Journal of the Outdoor Life, M.
Journal of the Society of Chemical
Industry, M.
Society of Dyers and Colorists, M

Kindergarten Magazine, M.

Knowledge, M.

Ladies' Home Journal, M.
Lawrence Eagle, D.
Leslie's Weekly
Lewiston Weekly Journal
Library Journal, M.
Library Work
Life, W.
Lippincott's Magazine, M.
Literary Digest, W.
Little Folks, M.

Living Age, W.
Living Church, W.
London Lancet, M.
London Truth, W.
London Times, W.
Lowell Courier-Citizen, D.
Lowell Etoile (L')
Lowell Sun, D.
Lowell Sunday Telegram

LIBRARY TRUSTEES' REPORT OF 1910

- | | |
|---|--------------------------------|
| Machinery | Mind, q. |
| McClure's Magazine, m. | Monde Illustré (Le) |
| Manchester Union, d. | Montpelier Argus, w. |
| Manufacturer's Record, w. | Munsey's Magazine, m. |
| Massachusetts | Musical Courier, w. |
| Metal Worker, w. | |
| | |
| Nation, w. | New York Herald, d. |
| National Builder, m. | New York Sun, d. |
| Nature, w. | New York Tribune, d. |
| New Bedford Evening Standard | New York World, TRI-W. |
| N. E. Historical and Genealogical | New York Evening Call |
| Register, q. | Nineteenth Century, m. |
| New England Homestead, m. | North American Review, SEMI-M. |
| New England Magazine, m. | Notes and Queries, w. |
| New York Clipper, w. | |
| | |
| Our Dumb Animals, m. | Outlook, w. |
| Outing, m. | |
| | |
| Park and Cemetery | Posselt's Textile Journal |
| Patent Office Gazette, (Gift) | Power |
| Petit Revue (Le) | Practical Engineer |
| Philosophical Review, w. | Printing Art, m. |
| Photo-Era, m. | Providence Journal, d. |
| Poet Lore, q. | Public Libraries, m. |
| Popular Astronomy, m. | Publisher's Weekly |
| Popular Mechanics, m. | Punch, w. |
| Popular Science Monthly, m. | |
| | |
| Quarterly Review | Queen, w. |
| | |
| Reader's Guide to Periodical Literature | Review of Reviews, m. |
| Recreation, m. | Revue Illustrée, BI-MENSUELLE |
| | Revue des Deux Mondes, SEMI-M. |
| | |
| St. Nicholas, m. | Spectator, w. |
| San Francisco Chronicle, w. | Sports of the Times, w. |
| Science, w. | Springfield Republican, d. |
| Scientific American, w. | Stateman's Year Book |
| Scientific Am. Supplement, w. | Success, m. |
| Scribner's Magazine, m. | Survey |
| Society for Psychical Research, m. | |
| | |
| Technical World, m. | Textile Manufacturer's Journal |
| Textile American | Textile World Record, m. |
| Textile Colorist, m. | Toronto Globe, w. |
| Textile Manufacturer, m. | Typographical Journal |

LIBRARY TRUSTEES' REPORT OF 1910

Vogue, w.

Westminster Review, m.

Wilson's Photographic Magazine, m.

Woman's Journal, w.

World's Work, m.

Writer, m.

Youth's Companion, w.

Zion's Herald, w.

LIST OF DONORS, 1910

	VOLS.	PAMPHLETS
Abbott, Francis E.	2	
Aldrich, Edgar, and others	1	
Allen, Arnold & Co.		1
American Book Co.	3	
American Dramatic Club	1	
American Irish Historical Society	1	
Anderson, The Misses	2	
Boggs, Capt. C. F.	1	
British and Foreign Unitarian Asso.	1	
Brown University	1	
Buttrick, Mrs. James G.	20	
Carus, Dr. Paul	1	
Chambre, Rev. A. St. John, D. D.	1	
Charity Organization Society, New York	1	
Chase, Frederick A.	1	
Crockett, Edward S.	1	
Cushing, Mrs. G. C.		14
Dartmouth College	1	
Daughters of the American Revolution	1	
Debar, Joseph	1	
Dennison, Mrs. E. W.	1	
Elliott, M. F.	4	
Equity (Philadelphia)	1	
First Church of Christ, Scientists, Lowell	1	
Gargan, Mrs. Thomas J.	1	
Gordon, Hanford L.	1	
Gregg, Rev. James E.	1	
Griswold, Stephen M.	1	
Harris, Henry H.	7	

LIBRARY TRUSTEES' REPORT OF 1910

	VOLS.	PAMPHLETS
Harvard University	2	
Heald, Mrs. Mary W.	155	
Higinbotham, H. N.	1	
Hoar Memorial Fund	1	
Homan, J. A.	1	
Honolulu Chamber of Commerce	1	
Hutchinson, Charles C.	11	
Kinney, Burton A.	1	
Lowell, City of	2	1
Massachusetts Society of Sons of the American Revolution	1	
Massachusetts, State of	19	
Melvin, James C.	1	
Melvin, Jerome B.	1	
Nelson, Thomas	1	
New York, State of	4	
O'Croly, Miss Ita M. Hutchinson	1	
Princeton University	1	
Prohibitionists National Com.	1	
Providence, City of	1	
Root, Charles T.	1	
Royal Society of Canada	2	
Sadler, Wilbur F., Jr.	1	
Savage, James F.	1	
Searle, B. V.	79	
Shaw, Ralph H.	1	
Stickney, Frederick W.	1	
Tucke, Edward M.	165	
United States Brewers' Asso.	3	
United States Supt. of Documents	396	1083
Winslow, W. C.	1	
Wisconsin Historical Society	1	
Woods, Henry E.	1	
Totals	918	1099

American Asso. for International Conciliation
 Shipman binder for documents of the Asso.
 Cohen, P. Sec.
 Hawaii Promotion Com.

Map
 Map

AUDITOR'S REPORT OF THE JOHN DAVIS FUND

LOWELL, MASS., December 20, 1910.

*To the Trustees of the City Library,
of Lowell, Massachusetts,*

Complying with your request, I have examined the securities comprising the "John Davis Fund," together with the accounts relative thereto, for the year ending December 19th, 1910, and respectfully submit the following report:—

The securities representing the Fund, as appended hereto, were all found in proper form, in the custody of Andrew G. Stiles, City Treasurer.

The income therefrom was all found properly accounted for, in duplicate books, provided for the purpose, in the hands of Mr. Stiles, and your librarian, Mr. Chase, the mortgage notes, showing proper endorsements for all interest payments, and interest on all Savings Bank Books, written up to date.

The account of Receipts and Payments was carefully checked, and the Payments properly accounted for by vouchers, or copies of the votes of the Trustees authorizing transfers to the General Fund or Appropriation.

Authority for changes of, and additional investments was shown in copies of votes of the Trustees.

Appended is an account of the Receipts and Payments for the year, and a list of the securities comprising the Fund, with their present market value, as obtained from reliable sources.

Respectfully submitted,

FRANKLIN E. JOHNSON,
Auditor.

LIBRARY TRUSTEES' REPORT OF 1910

RECEIPTS

Cash on hand at last audit	\$ 4,583.36
From re-payment of loan to General Library Fund	3,000.00
Interest and dividend earnings on investments and loans	4,307.04
Cash received from City Institution for Savings	300.00
Cash received from Merrimack River Savings Bank	1,177.23
Dividend No. 9 in liquidation of National Bank of Republic	40.00
Refund of Taxes on National Bank Stock	167.38
(For 1909, 83.05. For 1910, 84.33)	
	\$13,575.01

PAYMENTS

For temporary loan to General Library Fund in antici- pation of annual appropriation of City Council	\$ 3,000.00
Purchase of books	3,345.14
Expenses of Children's Room	687.75
Expenses of Sunday Opening	390.17
Boston & Maine 4½% bonds purchased	5,240.00
Repairs and improvements to Children's Room	372.19
Deposit in Central Savings Bank on account No. 35,073 for Sinking Fund	100.00
Auditing	25.00
Cash on hand December 19, 1910	414.76
	\$13,575.01

LIST OF SECURITIES

REGISTERED BONDS

NAME	Due	Rate of Interest	Par Value		Present Value
City of Boston	1919	3½%	\$10,000.00	@ 97	\$ 9,700.00
Boston & Maine R. R.	1944	4½%	11,000.00	@ 105	11,550.00
Boston & Maine R. R.	1926	4 %	10,000.00	@ 97	9,700.00
Boston & Maine R. R.	1929	4½%	5,000.00	@ 103	5,150.00
Boston & Albany R. R.	1952	3½%	4,000.00	@ 88	3,520.00
N. Y., N. H. & H. R. R.	1954	4 %	10,000.00	@ 99½	9,950.00
N. Y., N. H. & H. R. R.	1914	4 %	10,000.00	@ 98½	9,850.00
Illinois Central R. R.	1952	3½%	10,000.00	@ 85	8,500.00
			\$70,000.00		\$67,920.00

LIBRARY TRUSTEES' REPORT OF 1910

RAILROAD STOCK

No. Shares	NAME OF ROAD	Price per Share	Amount
41	Boston & Maine (Common)	\$125.00	\$ 5,125.00
39	Boston & Albany	224.00	8,736.00
1	Nashua & Lowell	235.00	235.00
1	Concord & Montreal (4th Class)	161.00	161.00
			<hr/> \$14,257.00

MANUFACTURING STOCKS

No. Shares	NAME OF COMPANY	Price per Share	Amount
50	Merrimack (Common)	\$ 59.00	\$ 2,950.00
3	Lowell Bleachery	200.00	600.00
12	Middlesex	40.00	480.00
49	Bigelow Carpet	171.00	8,379.00
			<hr/> \$12,409.00

MISCELLANEOUS STOCKS

12	American Tel. & Tel. Co.	\$142.00	\$ 1,704.00
3	Lowell Gas Light	295.00	885.00
			<hr/> \$ 2,589.00

BANK STOCKS

No. Shares	BANK	Per Share	Amount
6	Nat. Bank of Commerce, Boston	173½	\$1,041.00
9	Appleton Nat. Bank, Lowell	103	927.00
3	Old Lowell Nat. Bank, Lowell	104	312.00
2	Wamesit Nat. Bank, Lowell	101	202.00
11	Union Nat. Bank, Lowell	180	1,980.00
10	First Nat. Bank, West Newton	140	1,400.00
			<hr/> \$5,862.00

LIBRARY TRUSTEES' REPORT OF 1910

SAVINGS BANK BOOKS

BANK	Book No.	Amount
City Institution for Savings	4522	\$ 754.80
City Institution for Savings	72189	634.32
Central Savings Bank	35073	550.64
		<u>\$1,939.76</u>

MORTGAGE NOTES

M. & P. J. M.	\$ 100.00
A. H.	2,000.00
M. M. & D. W. R.	650.00
	<u>2,750.00</u>

SUMMARY OF INVESTMENTS AND CASH ASSETS

Name of Investment	Valuation Nov. 30, 1909	Valuation Dec. 19, 1910	Increase	Decrease
Registered Bonds	\$ 63,555.00	\$ 67,920.00	\$4,365.00	
Railroad Stocks	15,415.00	14,257.00		\$1,158.00
Manufacturing Stocks	10,679.00	12,409.00	1,730.00	
Bank Stocks	5,862.00	5,862.00		
Miscellaneous Stocks	2,535.00	2,589.00	54.00	
Savings Bank Books	3,192.49	1,939.76		1,252.73
Mortgage Notes	2,750.00	2,750.00		
Cash in Bank	4,583.36	414.76		4,168.60
Silverware and Jewelry	90.15	90.15		
	<u>\$108,662.00</u>	<u>\$108,231.67</u>	<u>Net Decrease</u>	<u>\$ 430.33</u>

ANNUAL REPORT
OF THE
CITY SOLICITOR



FOR THE YEAR ENDING

1910 = 1911

REPORT.

OFFICE OF CITY SOLICITOR,
Lowell, Mass., February 28, 1911.

Gentlemen of the City Council:

In compliance with the City Ordinances, I submit the following report of the Law Department for the year ending February 28, 1911.

LITIGATION.

17088. *Billerica Street Bridge*

Petition of the Board of Aldermen of the City of Lowell in the County Commissioners of Middlesex County, praying that alterations be made in Billerica Street in said Lowell, where the railroad bridge on the Lowell and Lawrence branch of the Boston & Maine Railroad crosses said street, by raising said bridge, widening said passage-way, and lowering said street. Hearing was had before said Commissioners and a view of the premises taken September 14, 1908. Subsequent hearings and conferences were held at Cambridge with said Commissioners, and the counsel of the Boston & Maine Railroad. Under date

of January 30, 1909, said Commissioners rendered a decree that public necessity required an alteration in the premises described in said petition, and set forth how the work should be done,

Petition was filed with the Superior Court for the appointment of a special commission to determine which party should carry such decision into effect and which party should pay the charges and expenses of making such alteration and the further charge for keeping such bridge and crossing and the approaches thereto in repair, as well as the costs of the application to the County Commissioners, and of the hearing before said special commission and to determine all other matters within their province.

Messrs. George W. Bishop, Arthur Lord, and Henry A. Wyman were appointed a special commission to determine which party should carry said decision into effect. Hearing was held March 31, 1910, and after due deliberation it was decided and determined:

First,—Said City of Lowell shall carry into effect so much of the decision of said County Commissioners as requires the taking of land and any other property for the purpose of widening Billerica Street.

Second,—All other matters, removals, excavations, works and constructions required by said decision of the County Commissioners shall be carried into effect by said Boston & Maine Railroad, lessee.

Third,—Said Boston & Maine Railroad shall pay all future charges for the keeping in repair the abutments and foundations thereof, and the bridge over said Billerica Street.

Fourth,—Said City of Lowell shall construct and keep in repair said Billerica Street between said abutments.

Fifth,—Said City of Lowell shall pay the entire expense of the land damage occasioned by the taking of land and property for the widening of said Billerica Street as required by said decree of the County Commissioners, together with all charges and expenses incurred by carrying into effect said decision, including the costs of the removals, excavations, works, and constructions required by said decision and which may be incurred subsequent to the date of this decree and by determination of the special commission to be carried into effect by the Boston & Maine Railroad.

Sixth,—The cost of the work heretofore done by the Boston & Maine Railroad in raising the grade of said railroad and in reconstructing the bridge over which said railroad crosses the Concord River shall be borne by said Railroad Company.

Seventh,—The costs of the application to the County Commissioners and of the hearing before this special commission shall be paid by the Boston & Maine Railroad.

Eighth,—No portion of the charges, expenses and costs of carrying this said decision into effect, and of any proceedings in relation thereto are apportioned to the County of Middlesex.

56. *Philip Gauthier v. City of Lowell.*

This was an action of tort brought by the plaintiff to recover the sum of three hundred dollars for injuries

received to plaintiff's horse, December 26, 1907, by reason of an alleged defect in the bridge over the canal on Aiken Street. The writ was dated December 24, 1909, and returnable to the Police Court of Lowell the first Saturday of February, 1910.

Settled for \$15.00.

17117. *William J. Green v. City of Lowell.*

This was an action of contract brought by the plaintiff to recover the sum of \$899.66 alleged to be due him for services rendered as call-man in the Fire Department of the City of Lowell. The writ was dated October 4, 1909, and returnable to the Superior Court the first Monday of December, 1909.

Trial was had at the November sitting of the Superior Court, 1910, and resulted in a verdict for the defendant.

16744. *Josephine Nolet v. City of Lowell.*

This was an action of tort for personal injuries alleged to have been received by the plaintiff November 21, 1908, by reason of the carelessness and negligence of the defendant in permitting its servants and agents to operate a steam roller in Sixth Street without placing proper barriers, signs or warning to notify the plaintiff or any other person of the proximity of said roller or danger connected therewith.

The writ was dated July 3, 1909, and was returnable to the Superior Court the first Monday of September 1909.

The case was settled by the payment of \$75.00.

18237. *Dennis E. Conners v. City of Lowell.*

18238. *Joseph Walsh v. City of Lowell.*

18239. *Edward F. Conners v. City of Lowell.*

These several actions are brought to recover under the statutes certain sums of money paid to the city treasurer for tax titles which are alleged to be defective by reason of omissions and informalities in the assessment and sale of the land. The writs are dated June 15, 1910, and returnable to the Superior Court the first Monday of August, 1910. The cases were argued on agreed statement of facts at the September sitting of the Superior Court, 1910. The Court found for the plaintiffs in twenty four items of their declaration and for the defendant on twenty three.

Both the plaintiff and the defendant appealed from the court's findings to the Supreme Judicial Court. The cases were submitted to the full court in January, and its decision is awaited.

16707. *Alden B. Illsley v. City of Lowell,*

This is an action of contract brought by the plaintiff to recover the sum of \$357.35 alleged to be due him for services as assistant engineer in the engineering depart-

ment of the City of Lowell. The writ is dated July 27, 1909, and returnable to the Superior Court the first Monday of September, 1909. Trial was had at the November sitting of the Superior Court, 1910, and resulted in a verdict for the defendant. Exceptions were taken during the trial, which are pending.

19073. *Winifred Radigan v. City of Lowell.*

This is an action of tort brought by the plaintiff to recover the sum of \$5000. for alleged injuries received on South Street, December 24, 1909. The writ is dated December 9th, 1910, and returnable to the Superior Court the first Monday of February, 1911. The defendant filed with the court plea in abatement, and sets forth as ground for abating the plaintiff's writ: that there is a variance between said writ and the plaintiff's declaration in that said writ is brought in the name of "Winifred Radigan" and the name of the plaintiff as appears from said declaration is "Winifred Redigan."

15698. *Thomas Curley v. City of Lowell.*

This was an action of tort brought by the plaintiff to recover the sum of \$15,000 for personal injuries alleged to have been received by the plaintiff on Dec. 4, 1908, from an explosion of dualin or some other substance which was left in a trench that was being dug in the building of the Oaklands Sewer. The writ was dated January 2, 1909, and returnable to the Superior Court the first Monday of

February, 1909. The plaintiff's left eye was destroyed, and he was also incapacitated probably permanently from performing heavy manual labor. The question of the liability of the city depended to some extent upon the instructions given him by the foreman of the gang in which he was at work. After a very careful examination of the facts I became satisfied that a verdict was probably inevitable. I therefore deemed it wise to effect a settlement and in justice to the best interests of the city I agreed to judgment for the plaintiff in the sum of \$1839.32 which was paid by the city.

18866. *John H. Davis et al, v. City of Lowell.*

This is a petition to the Superior Court for a jury to assess damages sustained by the petitioner by the building of a high embankment in front of their premises, in pursuance of a decree of the Commissioners appointed by the Court on the petition for the abolition of the grade crossing at Plain Street and Boston Road. The petition was filed with the Superior Court, December 21, 1910, and returnable the first Monday of February, 1911. Pending.

Harry P. Graves, Admr. of the Estate of Andrew S. Peterson v. City of Lowell.

This is an action of tort brought to recover the sum of \$10,000 for the death of Andrew S. Peterson by falling

over an embankment or abutment on Lincoln Street, which was negligently left unguarded by the City of Lowell in the progress of changing the grade in Lincoln Street, December 17, 1910.

The writ in this case was not served on the defendant thirty days before entry day; the defendant filed a motion to dismiss the action, which motion is still pending.

19001. *Charles Lajoie v. City of Lowell.*

This is a petition to the Superior Court for a jury to assess damages alleged to have been caused to the plaintiff by reason of the alteration of the grade crossing at Lincoln Street. The petition was filed in the Superior Court, January 4, 1911, and returnable the first Monday of February, 1911. Pending.

19089. *Marie Louise Labranche v. City of Lowell.*

This is an action of tort brought by the plaintiff to recover the sum of \$4,000, for alleged injuries received on Race Street December 3, 1910. The writ is dated January 4, 1911, and returnable to the Superior Court the first Monday of February, 1911. Pending.

18451. *Patrick S. Smith et al v. City of Lowell*

This is a petition for a jury to assess damages alleged to have been caused by the taking of land for the purpose of laying a main drain or sewer through the land of the

petitioners. The petition was filed September 16, 1910, and returnable to the Superior Court the first Monday of November, 1910. Pending.

19207. *George H. Brown v. City of Lowell.*

This is an action of contract brought by the plaintiff. The writ is dated the 12th of January, 1911, and returnable to the Superior Court the first Monday of March, 1911.

19209. *Katherine Goulet v. City of Lowell.*

This is an action of tort brought by the plaintiff to recover the sum of \$5,000. The writ is dated January 20, 1911, and returnable to the Superior Court the first Monday of March, 1911.

19208. *Hercule Goulet v. City of Lowell.*

This is an action of tort brought by the plaintiff to recover the sum of \$5,000. The writ is dated January 20, 1911, and returnable to the Superior Court the first Monday of March, 1911.

*Elmer A. Stevens, Treasurer and Receiver General,
v. City of Lowell.*

This was an action of contract brought by the plaintiff to recover the sum of \$76 on account of treatment of

patients at the State Infirmary. The writ was dated April 11, 1910, and returnable to the Superior Court, for Suffolk, the first Monday of June, 1910. Full settlement having been made, this case was not entered in court.

58401. *Elmer A. Stevens, Treasurer and Receiver General, v. City of Lowell.*

This was an action of contract brought by the plaintiff to recover the sum of \$1,000 due for board of paupers at the State Infirmary. The writ was dated August 29, 1910, and returnable to the Superior Court for Suffolk the first Monday of October, 1910. The city paid the full amount of the claim and it was agreed by council that the following entry might be made: "Judgment for plaintiff and judgment satisfied."

60083. *Elmer A. Stevens, Treasurer and Receiver General v. City of Lowell.*

This is an action of contract brought by the plaintiff to recover the sum of \$4,286.92 for board and tuition of Kate Roberts and others. The writ is dated December 22, 1910, and returnable to the Superior Court for Suffolk the first Monday of February, 1910. Pending.

18230. *John H. Handley v. City of Lowell.*

This is an action brought by the plaintiff to recover the sum of \$2,000 for damages occasioned by the failure

of the apparatus of the fire department to work when a fire broke out on his premises on Merrill Street, December 6, 1909. The writ is dated June 13, 1910, and returnable to the Superior Court the first Monday of August, 1910. The defendant demurred to the several counts in the plaintiff's declaration. Pending.

LAND COURT CASES.

During the past year several petitions to register title to land in Lowell have been filed in the Land Court, which were referred to the City Engineer for investigation. In each case where a plan filed was for some reason unsatisfactory to the city the changes necessary for the approval of this department were made by the petitioner.

In the following cases no changes have been made since my last report.

3032. *Bragg Manufacturing Co. (U. S. CT.) v. City of Lowell.*

274. *Peter Curran v. City of Lowell.*

869. *Bernard Delany et al v. City of Lowell.*

1151. *Patrick O'Hearn v. City of Lowell.*

922. *James Smith, et al v. City of Lowell.*

8911. *Charles Cowley v. City of Lowell.*

1957. }
1992. } *Grade Crossings (1910) Equity.*

17595. *Helen E. Estabrook v. City of Lowell.*

LIST OF OPINIONS SINCE FEBRUARY 28,
1910.

1910

March 3. Board of Assessors.
Exemption of "Whistler House" from taxation.

March 4. Board of Police.
Application of Law relating to Lodging Houses.

March 7. Hon. John F. Meehan, Mayor.
Application of Civil Service rules to position
of Assistant Superintendant of State Aid.

March 28. Committee on Lands and Buildings.
Expense of repair of desks and chairs in
school houses.

March 28. City Council.
Relating to half-holidays for city employees.

April 7. Board of Charities.
Legality of Ordinance to transfer power to
elect and define duties of city physician.

April 12 Harvey B. Greene.
Legality of member of Park Commission to
furnish plants to Trustees of Public Burial
Grounds.

April 18. Board of Aldermen.
Right of city to revoke franchise, or compel
street railway company to lay tracks.

April 22. Peter A. MacKenzie.
Powers of Chief of Supply Department in pur-
chase of material and supplies.

April 23. Councilman Alfred T. Howe.
Taxation of Parochial Residences.

May 2. Board of Aldermen.
Obligation of Street Railway Company to com-
plete line on location granted.

May 4. Committee on Public Hall.
Authority to install public baths in new hall.

May 12. Major Charles S. Proctor.
Relating to appropriations for building new
"Huntington Hall."

- May 16. Committee on Teachers.
Meaning of "Legal residence" as affecting public school attendance, free of charge.
-
- May 16. Board of Police.
License for victualler, and billiard and pool room on same premises.
-
- May 19. J. W. Crawford, Secy. Water Board.
Acceptance by departments of goods furnished by supply department.
-
- June 4. Councilman, John F. Gookin.
Authority of City Council over Police Department.
-
- June 2. Committee on Appropriations.
Right of Water Board to call for bids before money for desired article is appropriated.
-
- June 6. Girard P. Dadman, City Clerk.
Permits for use and Sale of Fireworks.
-
- June 15. Dr. J. J. McCarty, Chr. Board of Charities.
Sale of Products at City Farm.
-
- June 18. Board of Assessors.
Taxation of Y. M. C. A.

- June 23. Stanley E. Qua, Chr. Com. on Accounts.
Appointment of Principal Assessor by Mayor.
-

- June 24. Committee on Appropriations.
Authority of City Council to enforce laws relating to smoke nuisance.
-

- July 7. A. K. Whitcomb, Supt. of Schools.
Liability of parents for tuition of children attending Lowell Schools and living outside city limits.
-

- July 12. Hon. John F. Meehan Mayor.
Authority of Mayor to forbid exhibition of moving pictures.
-

- July 14. Board of Aldermen.
Liability of City to pay royalty to Hassam Paving Company, for certain methods of street paving.
-

- July 19. Martin F. Conley, Supt. of City Farm.
Legality of Charity Department to pay bills for medical attendance furnished by another city or town.

- July 22. Hon. John F. Meehan, Mayor.
Relating to Bond of Indemnity to be given by
Lowell Automobile Club, before contest can
be held.
-
- July 28. John J. Mullany, Chr. Board of Police.
Authority to grant license for rebuilding bulk-
head on Hayes' Alley.
-
- Aug. 1. George Bowers, City Engineer.
Authority of City Council to grant permission
to erect advertising signs in public streets.
-
- Aug. 5. Board of Police.
Authority to post automobile laws on highways.
-
- Sept. 1. Board of Charities.
Legal right to pay bill to Mass. Home for
Feeble-minded.
-
- Sept. 6. A. K. Whitcomb, Supt. of Schools.
Restriction of common drinking cups in schools.
-
- Sept. 20. Stanley E. Qua, Chr. Com. on Public Hall.
Relating to Commission, and seizure of land
for public hall.

- Oct. 1. A. K. Whitcomb, Supt. of Schools.
Relating to property used in fitting up premises
for school purposes.
-
- Oct. 6. Board of Police.
Authority to sell liquors on Columbus Day.
-
- Oct. 17. Lands and Buildings Committee.
Right to sell Middlesex Village school property.
-
- Nov. 1. Board of Charities.
Application of eight hour law to Engineer at
Chelmsford Street Hospital.
-
- Nov. 14. Martin F. Conley, Supt. of City Farm.
Relating to settlement of widow, whose hus-
band had settlement in Westford.
-
- Nov. 18. Dr. J. E. Lamoreaux.
Relating to expense of making an analysis of
coal for school department, where it is thought
to be below standard.
-
- Nov. 29. George Bowers, City Engineer.
Authority of City Council to grant permission
to Boston and Maine R. R. to erect "crossing
shanty" in public way.

- Dec. 3. Frank M. Dowling, Clerk of Committees.
Relating to bills in Charity Department, submitted by the City of Holyoke, for care of persons having a settlement here.
-

- Dec. 8. Board of Police.
Relating to transfer of license upon change of location,—for sale of ice cream etc., on the Lord's Day.
-

- Dec. 19. Alderman A. L. Gray.
Relating to disposal of unexpended appropriation.
-

- Dec. 27. Committee on Claims.
Liability of City Council to pay Ex-Mayor Brown's claim for counsel fees.
-

1911.

- Jan. 9. Charles A. Whittet, Supt. of Parks.
Relating to Moth Assessments.
-

- Jan. 21. Board of Police.
Relating to licenses to regulate certain trades and occupations by minors.

- Feb. 7. Alderman Andrew E. Barrett.
Relating to loans on account of water department, to be secured by bonds.
-
- Feb. 17. Robert J. Gilmore, Supt. Pub. Burial Grounds
Powers of Trustees to contract for construction of a new iron gate.
-
- Feb. 20. Board of Charities.
As to whether the Board of Charities is at the head of the department.

1910

LEGISLATION

March 1st, I attended a hearing before the Committee on Taxation in favor of House Bill 853 providing for the taxation of trust companies.

March 2nd, I appeared before the Committee on Railroads in favor of House Bill 1213 providing that the expense of abolishing grade crossings be met by the railroads except in cases where municipalities are the petitioners. The Committee voted leave to withdraw.

March 4th, I appeared before the Committee on Taxation in opposition to Senate Bill 3 providing for the exemption from taxation of property taxed outside the Commonwealth.

March 10th, I appeared before the Committee on Public Health in opposition to House Bill 658 and Senate Bill 148, relative to the pollution of the Merrimack River. These bills vested in the State Board of Health powers which, if exercised to their fullest extent, might prove a financial embarrassment to the City of Lowell. A new bill, eliminating the features objected to, was reported by the Committee and enacted into law.

1911

February 9th, I attended a hearing before the Committee on Street Railways, in favor of House Bill 519, providing for the granting of freight and trolley express franchises by cities and towns. The bill was reported and is now before the legislature for enactment.

February 10th, I attended a hearing before the Committee on Taxation on House Bill 527, relative to the taxation of certain property of railroads and street railways.

February 20th, I attended a hearing before the Committee on Rules, in favor of House Bill 1364, which provides for the furnishing to cities and towns copies of all bills and resolves in any way affecting municipalities.

February 21st, I appeared before the Committee on Education in opposition to Senate Bill 107, providing for the pensioning of certain teachers in the public schools.

Respectfully submitted,

WILLIAM W. DUNCAN,

City Solicitor.

ANNUAL REPORT

OF THE

BUILDINGS DEPARTMENT

OF

LOWELL, MASSACHUSETTS

FOR THE YEAR

1910



LOWELL, MASSACHUSETTS
THE UNION PRINTING COMPANY
1910



REPORT

1910

OFFICE OF INSPECTOR OF BUILDINGS
CITY HALL, LOWELL, MASS.,

To His Honor, the Mayor, and Gentlemen of the City Council of the City of Lowell, Massachusetts:

GENTLEMEN:

In accordance with the requirements of the building ordinance, I have the honor to submit to you the following, as my report of the Buildings Department for the year ending December 31, 1910.

Respectfully submitted,

JAMES DOW,

Inspector of Buildings.

ORGANIZATION

INSPECTOR OF BUILDINGS

JAMES DOW

Deputy Inspector and Foreman - - - ALBERT E. BURNHAM

Clerk of Department - - - - - JOSEPH F. ROARKE

CARPENTERS

Mitchell Bourdon
Edward Cinq Mars
David Common
Horace Dexter
William Dudley
William Egan
Daniel Emerson
Joseph Lavigne
Sienna Matte
William C. Piper
Benj. Smith
James Smith

PAINTERS

William Cox, Foreman
John Boyle
Frederic Casse
Thomas Campbell
John J. Carr
Joseph Coleman
Walter Matherson
Arthur Monahan
Henry O'Neil
John Roarke
John Sands
Ellsworth Smith

PIPERS

Fred Keefe
Owen Muldoon

GAS PIPING INSPECTOR

Robert J. Wotton

TEAMSTER

Hugh Thomas

LABORERS

Gus Bjorkman
Joseph Cadoret
John Donlon
John W. Healey

JANITORS

At Memorial Hall
James McCarthy

At Police Station
Omer Smith
Michael Bruin

At Rifle Range
Frank Burns

EXPENDITURES IN DETAIL

BUILDINGS

SALARIES

Appropriations		\$4,150 00
Expended as follows		
Inspector of Buildings	\$1,800 00	
Deputy Inspector of Buildings	1,252 00	
Clerk of Department	1,098 00	
Totals.....	\$4,150 00	\$4,150 00

LABOR

Appropriations		\$6,432 26
Receipts		451 86
Expended as follows		
Gas Piping Inspector	\$ 900 56	
Mechanics and Laborers	5,983 56	
Totals	\$6,884 12	\$6,884 12

JANITORS

Appropriations		\$2,091 75
Expended as follows		
Janitor at Police Station	\$ 897 50	
Assistant Janitor at Police Station	490 00	
Janitor at Memorial Hall	704 25	
Totals	\$2,091 75	\$2,091 75

NEW CENTRALVILLE FIRE HOUSE—(Hose 12 and Truck 4 House)

Appropriation, balance brought forward.		\$191 62	
Expended as follows			
Paving	\$134 00		
Land	50 00		
	<hr/>		
	\$184 00		
Transferred to general treasury	7 62		
	<hr/>		
	\$191 62		\$191 62
Summary			
Expended on land 1907	\$ 919 60		
Expended on building 1908	28,994 27		
Expended on building 1909	7,764 11		
Expended on building 1910	184 00		
	<hr/>		
Total cost	\$37,861 98		

A. O. H. REVIEWING STAND

Appropriation		\$300 00	
Expended as follows			
Lumber	\$183 84		
Teaming	5 00		
Labor—carpenters	111 16		
	<hr/>		
Totals	\$300 00		\$300 00

RIFLE RANGE

WAGES

Appropriation		\$626 00
Expended as follows		
Keeper at range	\$626 00	
	<hr/>	<hr/>
	\$626 00	\$626 00

OTHER EXPENSES

Appropriation		\$302 95
Expended as follows		
Coal	\$ 15 00	
Electrical repairs	18 67	
Hardware	4 04	
Labor on barricade.....	24 40	
Lumber for barricade	17 66	
Targets, posters and supplies.....	53 31	
Telephone.....	40 00	
Use of range at Wakefield and transportation.	129 87	
	<hr/>	<hr/>
	\$302 95	\$302 95

SCHOOL HOUSES

LABOR

Appropriation		\$10,000 00	
Receipts		903 53	
Expended as follows			
Sundry persons for labor as per pay rolls.....	\$10,851 58		
Transferred to general treasury.....	51 95		
Totals.....	\$10,903 53	\$10,903 53	

OTHER EXPENSES

Appropriation		\$10,781 60	
Receipts		453 15	

Expended as follows (materials)

Blackboards	\$ 251 38		
Filling	114 10		
Grates	91 20		
Hardware	460 04		
Lumber	1,037 56		
Mason supplies	176 25		
Paint stock, oils, glass, etc	2,185 23		
Paving blocks	61 83		
Pipers' supplies	314 21		
Miscellaneous items.....	15 13		
		\$4,706 93	

Repairs and Improvements

Belting	\$ 2 25		
Concrete	819 08		
Electrical repairs	117 87		
Heating repairs	3,250 34		
Hardware repairs and iron work.	186 50		
Mason work	242 73		
Plumbing	1,008 67		
Roofing	789 88		
Teaming	110 50		
		\$6,527 82	

Totals.....	\$11,234 75	\$11,234 75	
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SCHOOL HOUSES, IMPROVEMENTS

Appropriation		\$3,300 00
Expended as follows		
Drain pipe	\$ 54 12	
Filling	18 25	
Hardware and paint stock	39 06	
Heating	285 45	
Kalsomining and plastering	1,089 00	
Labor—kalsomining, grading, etc.	749 39	
Lumber	40 00	
Mason work and teaming	1,024 73	
	<hr/>	<hr/>
Totals	\$3,300 00	\$3,300 00

SCHOOL HOUSES, KALSOMINING

Appropriation		\$2,000 00
Expended as follows		
Drip cloths and hardware	\$ 4 00	
Kalsomining (contracts)	770 60	
Kalsomine and paint stock	159 78	
Plastering	61 10	
Labor—kalsominers and painters	1,002 76	
	<hr/>	
	\$1,998 24	
Transferred to general treasury	1 76	
	<hr/>	<hr/>
Totals	\$2,000 00	\$2,000 00

SCHOOL HOUSES, PLASTERING

Appropriation		\$300 00
Expended as follows		
Plastering	\$299 74	
Transferred to general treasury	26	
	<hr/>	<hr/>
Totals	\$300 00	\$300 00

WORK ON BOILERS

Appropriation		\$1,500 00
Expended as follows		
New boiler (contract)	\$ 975 00	
Repairing boilers	522 10	
	<hr/>	
	\$1,497 10	
Transferred to general treasury	2 90	
	<hr/>	<hr/>
Totals	\$1,500 00	\$1,500 00

NEW HIGHLAND SCHOOL (Washington School)

Appropriation, balance brought forward.....		\$2,178 87	
Expended as follows			
Arbitrators	\$ 60 00		
Awning	10 00		
Concreting	301 23		
Hardware	9 92		
Heating repairs	73 56		
Labor—grading and repairs.....	660 08		
Lumber	203 62		
Retaining wall (balance of contract).....	600 00		
Rolling lawn and filling	46 50		
Teaming	187 50		
	<hr/>		
	\$2,152 46		
Transferred to general treasury.....	26 41		
	<hr/>		
Totals.....	\$2,178 87	\$2,178 87	
Summary			
Expended on land 1905.....	\$ 2,200 00		
Expended on building 1908.....	44,247 43		
Expended on building 1909.....	41,073 70		
Expended on building 1910.....	2,152 46		
	<hr/>		
Total cost	\$89,673 59		

SCHOOL DESK REPAIRS

Appropriation		\$1,000 00	
Expended as follows			
Furniture	\$ 84 00		
Freight	1 08		
Paint stock	47 25		
Labor—carpenters and painters.....	836 42		
	<hr/>		
	\$968 75		
Transferred to general treasury.....	31 25		
	<hr/>		
Totals.....	\$1,000 00	\$1,000 00	

SYNOPSIS

Work done by the Buildings Department during the
year 1910

BUILDINGS

City Hospital—Extensive repairs have been made to the heating plant, new steam tube blower installed in boiler. The old toilet and bath rooms in the women's hospital have been removed and new bath rooms with modern fixtures and open plumbing, sanitary floors and walls have been installed in the wards, and the space formerly used for the bath rooms has been converted into large dining rooms. These dining rooms, two in number, have been fitted up with metal ceiling, new floors, closets and eight large tables. New floors have been laid in corridors leading to dining rooms. Several other bath rooms have been fitted up and repairs made. Medicine and clothes closets have been painted and fixed up. Extensive painting has been done on various buildings, fire-escapes have all been painted. Ventilators have been taken off roof of men's hospital, roof recovered with tin. Baker's oven repaired and brickwork on boilers also repaired, also new mouthpieces set. New screen doors on women's hospital. Repaired stalls in barn, fixed skylights on shed in yard, new roofs on summer houses in men and women's yards, swill house repaired, clapboarded side and reboarded roof and covered it with Ruberoid roofing. Tore away the cells under (men's) insane building. General repairs throughout buildings, plumbing, piping, carpenter, painting and mason work done.

Board of Health Stables and Sheds—The old buildings have been repaired and stables have been fixed up so that the horses may be kept from freezing to death. New gate on Broadway side of yard. General repairs.

City Stable—Painted porch in yard and shed on rear of barn, also the offices. The storehouse and workshed in the sewer yard also repainted. A run has been made to cellar under barn for the storage of wagons and sleds. New floor laid in both barns and stalls repaired. Built a new shed 28 x 100 back of barn.

Carpenter Shop—Three new radiators have been placed in the paint shop. A new tool room built in the basement. Minor repairs.

City Hall—Made several cases for different departments. Recovered several screens. Put in lavatories in the Buildings Department, Purchasing Agent's and Board of Health offices. New toilet room for the ladies in the basement. Installed steam tube blower to boiler, new mouthpieces and repaired brickwork on boilers. Extensive repairs to elevator pump. Steam and plumbing repairs. Iron gate in basement.

Memorial Building—Changed doors on fire escape to push out. New catches on basement windows. New lock on main door. Large closet built for dishes in kitchen to Memorial Hall. Painted roofs.

Police Station—Painted and whitewashed the prison. Painted and kalsomined and varnished police court rooms, private entrances, hallways, electrician's room, Police Board rooms and the outside of building also painted. New doors and door castings in guard room, put in door and panel work in arch between guard room and matron's and emergency and detention rooms. New floor in corridor leading to court room on second floor. Radiators installed in small court room. Whitewashed boiler room. Rebuilt city scales, new platform, frame and woodwork, also repaired scales. Extended heating surface in stable.

Rifle Range—Built one concrete barricade between 300 yard and 200 yard ranges, 50 feet long and 12 feet high, the face of which has been covered with spruce plank to stop bullets from glancing.

FIRE DEPARTMENT BUILDINGS

Engine 1 House—Repaired stalls and minor repairs throughout building. Built two new closets for new men.

Engine 2 House—Painted stable, toilets, sitting room, hallways on first floor, also the outside of building and fence. Shingled shed in rear, repaired stalls, new galvanized iron gutter on building. General repairs incidental to painting.

Engine 3 House (Central Fire Station)—Painted and varnished sitting room, toilets and bath room on truck side. Scraped reception room floor and refinished same, papered walls of room and enameled woodwork. Repaired stalls and put safety treads on stairs leading to reception room. Cut doorway to roof from tower, partitioned off electrician's room and put in new door. Installed new boiler to replace old one condemned by boiler inspector. General repairs.

Engine 4 House—Painted sitting room, bath room, stairway from first floor to second floor. Took out old plumbing and fixtures and installed new bath and open plumbing. Laid part of floor in attic. New sash in front doors. Relaid and reset the stalls. New protector over steamer on ceiling. Concreting around building repaired.

Engine 5 House—Repaired and sheathed up stalls. New bath tub.

Engine 6 House—Painted engine room. New slop sink in barn. Repaired stalls and general repairs.

Hose 7 House—Repaired stalls and laid new floor in part of the barn. Built new closet for extra man. Extensive heating alterations, more radiation. General repairs.

Hose 8 House—Only general repairs. A modern building should be erected for this company or the old building should be entirely changed.

Hose 9 House—Built two closets for new men. Made new door for stable. Partly recovered with clapboards the store-room. New fixtures and open plumbing to replace old-fashioned plumbing in bath room.

Hose 10 House—Painted all rooms on lower floor. New cellar window frames. Repaired stalls.

Hose 11 and Truck 1 House—New fixtures and open plumbing in bath rooms. Roofing repaired. General repairs in building.

Hose 12 and Truck 4 House—Painted new hose rack, new cupboards in basement and several alterations in building. Built two new closets and one case of drawers. Changed sash in stall doors. Built retaining wall on hose side of building and built fence on same, also built fence on rear of lot. New doors in basement. Made several alterations on truck side. Cut down stall partitions and put in iron gratings, took out large lights of glass and put in small ones. Jacked up floor under truck and put in timber where building had settled.

Truck 2 House—Whitewashed the basement, wagon shed and hay room. Repaired stalls and made general repairs in building.

Protective 1 House—This house has undergone a complete change. The stalls have been removed and large quarters provided for the auto truck, a large sitting room has been partitioned off and a toilet room made on the first story. On the second story the floor space has been divided off into nine individual rooms for members of the company, and a large and up-to-date bath room installed with modern fixtures and open plumbing, a shower bath is also provided. The building has been wired for electric lighting and the gas piping has been changed to conform to new conditions.

The steam piping has been all changed, providing an entirely new system. The building has been painted inside and out and varnished where needed. Several new windows had to be cut and some window openings had to be closed up. The building is thoroughly up-to-date and will compare favorably with any house of its size in the state.

SCHOOL HOUSES

New Bartlett—Built a new stone wall on the northwest side, put a new fence on top of this wall, built two dry wells in yard to take water from the conductors and blow off from boilers, the sewer not being deep enough to take drainage from roof and waste from boiler. Graded the yard and sowed down the girls' side of yard with grass seed. New retaining wall was built on the south side of the lot, and also one from the building on the boys' side to the street line thence northerly to grade of hill. Also built a four foot fence on top of these walls. Several gas lights were run in the basement. Two new sliding iron gates were placed at the front entrances. The fences and these gates were painted.

Old Bartlett—New shutters for the attic windows and the fences were repaired.

Butler—Painted basement walls, woodwork and pipes. Planked lower part of back fence to keep earth from washing away and finished paving and grading the yard. Concrete walks repaired and extended. The whole school kalsomined with the exception of the assembly hall. General repairs and painting.

Colburn—Paved rear yard and driveway for coal teams. Removed ledge in basement and concreted floor.

Edson—Laid new floors in hall on the third floor also in corridor on second floor and all the stair landings. A new boiler has been placed in the building to replace the old one

condemned by the inspector of boilers. Took out old stairway from yard to basement and built a room for the double windows. Replaced eight rooms of furniture with newly finished furniture, revarnished same and blackened irons.

Franklin—Picture moulding has been hung in several rooms. The old cold air duct has been removed and a window cut in wall. A new entrance with stone steps has been put in the Middlesex Street side of building to take the place of the old one which was removed to make a park on the grounds possible. Seven rooms were fitted up with new slate blackboards and all woodwork around blackboards was revarnished.

Green—Whitewashed the basement. Replaced one room of old furniture with furniture that had been scraped and refinished. Laid two new (class room) floors and hallways and dressing rooms on the third floor. Retubed the boiler and repaired the brickwork.

Greenhalge—Covered the rear entrance to basement where janitor removes ashes. Covered the large fan to deaden the noise. Also built embankment and built a fence on same between the property of the St. Louis convent and the school grounds. This was done to keep the land from washing away. Repaired the fences around the school. Three sliding iron gates on entrances. Painted porch over run to basement and main entrances. Kalsomined the master's office and toilet room also painted the new fence. Three large gate valves on steam feed from boiler and repaired the air ducts.

High—Refinished several floors and general touching up. The building has been all kalsomined with the exception of the assembly hall. Replastered all beams that needed it and refurred these beams and patched plastering in several places. New seats, chains and covers for the Fuller & Warren dry closets. Also repaired the furnaces and heating ducts. Repaired the furniture, new covers and general repairs.

High Annex—Scraped the desk tops in the commercial department. Altered several cabinets and put up shelves. Finished the desk tops and window guards. New toilet for men teachers. New belts and pulleys for ventilating fan. General repairs.

Highland—Repaired and painted the outside of building. Whitewashed the basement. Kalsomined the assembly hall and varnished the woodwork. Painted the basement. Sheathed the beams in the assembly hall. Retubed the boiler and repaired the brickwork around it. Repaired the roofing.

Lincoln—Kalsomined the entire building and varnished the woodwork. Painted the window guards and outside. Extensive repairs to heating and ventilating system.

Old Moody—Roofing repairs. General repairs.

New Moody—New grates and frames for the Fuller & Warren dry closets on the girls' side. Whitewashed the basement and built a room for the janitors. Painting and general repairs.

Mann—Retubed the boiler and repaired brickwork. General repairs.

Pawtucket—Painted the outside of building, also the woodwork in basement. Built new fence on the Fourth Avenue and Mammoth Road sides of building and painted same. New line fences. Graded yard, reset stone steps and repaired the concrete walks. New conductors and repaired others.

Riverside—Kalsomined the entire building, varnished the woodwork, painted the basement. New set of bank steps and new flight of stairs to basement. Repaired the roof and louvers. Placed Chamberlain weather strips on all windows.

Varnum—Kalsomined three rooms and put on three new ceilings. New gutter on building that connects the old building with the new building. New slate blackboards in two rooms. Teachers' toilet on second floor. Painted toilets and basement of old building.

Washington—Built 825 feet of fence. Made the bank wall on New Wilder Street two feet wider. Built shelter on outside of building so that the intake of cold air might be regulated before passing over the tempering coils. Separated the girls' and boys' water closets so that only half might be in use. Hung several cellar windows and placed screens on same. Painted all new fences. Finished grading yard.

Agawam Street—Painted and varnished interior woodwork of upper building and basement. Whitewashed the basement. Piped the basement for gas. Placed Chamberlain weather strips on front windows. Repaired the roofing.

Ames Street—Basement piped for gas. General repairs.

Billings Street—Basement has been piped for gas. New toilet for teachers on second floor. Cut window in wall for light for toilet. Picture moulding for teachers' room. Woodwork all varnished. Boiler repaired.

Central Street—Basement painted. Boiler repaired.

Cross Street—Whitewashed the basement and repaired the fences and steps to yard. New cellar window frames. Furnace repairs.

Carter Street—Put on new locks on all hall doors to conform to state law. New door checks. New grates for boiler. Two new galvanized iron air ducts built on northeast side of building and cased up same. This improvement to the heating system has made it possible to heat this building where previously it was not an uncommon thing to be obliged to dismiss school on account of lack of heat.

Chapel Steet—A new boiler and circulation was installed in the two rooms of this school. The basement has been piped for gas and whitewashed.

Cottage Street—The basement has been piped for gas.

Charles Street—Driveway and walks paved and concreted, yards graded. Recovered steam pipe returns with plank and cemented over same. Repaired the chimney. New vent for urinal and water closets.

Cabot Street—Whitewashed the basement and extensive repairs made to the furnaces. Roof was also repaired.

Colburn Primary (Training School)—The driveway and place where coal is put in has been paved and concrete walks repaired. Yard graded. Removed the partition between offices and large room formed, repaired the plastering and kalsomined this room, laid a new floor and set room of school furniture. Refinished floor in another room and removed the furniture and fitted room up for kindergarten purposes.

Cheever Street—Stoves repaired.

Dover Street—Painted the basement walls and tin roofs.

Favor Street—New toilet room for teachers on first floor. Painted the basement and stairway. Repairs to roofing.

Howard Street—Whitewashed the basement. Put in two new rooms of furniture. Stoves repaired.

High Street—Painted the basement and fences and outside of building. New gutters and copper valleys, roofing repaired. Paved driveway, graded yard and concreted walks.

Kirk Street—Repaired the smoke flue. New toilet for teachers. Front yard concreted and walks on side. Yard graded.

Lexington Avenue—Basement has been whitewashed. Two closets built on first floor for use of teachers. Furnaces repaired, painting and general repairs.

Lyon Street Annex—New stone wall on rear of lot and new fence on same. New floor in room over school room and electric bell installed.

London Street—New cellar window frames. Basement piped for gas.

London Street Annex—Only small repairs have been made on this building although it is badly in need of repairs. I think this building should undergo extensive repairs, but consider it inadvisable until something is done toward securing a permanent site for the building which is now on leased land.

- Lakeview Avenue**—The basement has been piped for gas and whitewashed. The boiler has been retubed and the brickwork repaired, smoke flue has been enlarged.
- Morrill**—Concrete floor in coal bin. The conductors from roof have been repaired. The concrete walks were also repaired.
- Middlesex Village**—Paved yard in front of coal windows and concrete walks have been relaid. The radiating surface has been increased in two of the school rooms and the smoke flue has been repaired. General repairs made throughout the building.
- Mammoth Road Kindergarten**—Furnace has been repaired and repacked.
- Moody Street**—Painted, whitewashed and varnished the basement. Rebuilt stone steps and graded yard.
- Oakland**—Kalsomined and varnished the inside of building. Painted the basement and connected the building with the sewer. Graded the yard. Repaired the furnaces.
- Plain Street**—Basement piped for gas. New set of vestibule doors on first floor opposite side entrance. New floor in the corridor. Repaired the furnaces.
- Powell Street**—Graded the yard and repaired the building outside and painted same, also painted the basement. Repaired furnaces. Concrete walks on side of building.
- Pond Street**—General repairs.
- Pine Street**—Painted the basement and general repairs throughout the building.
- Tenth Street**—Painted and whitewashed the basement. Repaired the brickwork on boiler.
- Worthen Street**—Painted the basement and window guards. Concrete walks laid and yard graded.
- Weed Street**—Whitewashed the basement. Had steam coils placed in the janitor's room. Painted the basement walls and woodwork. One room of refinished furniture installed.
- West Sixth Street**—Whitewashed the basement. Changed over roof of porch. Took away the steps on side of porch and put up rail. Painting and general repairs.

CONTRACTS

The following jobs were figured in competition, and in each case the contract was awarded to the individual or firm submitting the lowest bid (marked thus *):

Rifle Range—50 ft. concrete barricade on 300 yard range. Staples Bros., \$300.00; Cyrus Barton, \$225.00*.

High School Annex—Water closet and lavatory—J. F. McMahon & Co., \$119.00*; John J. Mullaney, \$140.00; Scott & O'Day Co., \$135.00.

Varnum School—Water closet and lavatory—J. W. Stewart, \$165.00; H. R. Barker Mfg. Co., \$110.00*; Joseph C. McCarron & Co., \$161.00, E. T. Shaw Co., \$140.00.

Butler School—Kalsomining entire building — Lowell Wall Paper Co., \$494.00; Samuel E. Snow, \$376.00*; F. G. Baldwin, \$385.00; Milo D. Clay, \$470.00.

High School—Kalsomining building except assembly hall—M. F. Connor, \$838.00*; B. F. Crosby & Co., \$1,280.00; Samuel E. Snow, \$1,014.00; Kelley Bros. \$875.00; Lowell Wall Paper Co., \$974.00; F. G. Baldwin, \$895.00; Milo D. Clay, \$900.00.

Riverside School—Kalsomining building—B. F. Crosby & Co., \$392.00; Milo D. Clay, \$300.00; Lowell Wall Paper Co., \$224.00*; M. F. Connor, \$240.00; Samuel E. Snow, \$256.00; F. G. Baldwin, \$270.00.

Varnum School—Plastering ceilings and kalsomining 3 rooms—B. F. Crosby & Co., \$274.00*; D. H. Walker, \$280.00; M. F. Connor (not including kalsomine), \$270.00.

High Street School—New gutter—H. H. Wilder & Co., \$117.00*; James L. Gordan, \$160.00; Lowell Furnace Co., \$120.00; C. F. Hoisington & Son, \$150.00.

New Bartlett School—Build two retaining walls—E. Bibeault, \$545.00* ; Staples Bros., \$700.00 ; Cyrus Barton, \$600.00.

Chapel Street School—Boiler and radiation (two room building)—Scott & O'Day Co., \$280.00* ; E. T. Shaw Co., \$295.00 ; Carroll Bros., \$288.00 ; Welch Bros., \$295.00 ; H. R. Barker Mfg. Co., \$288.00 ; Farrell & Conaton, \$307.00.

Edson School—New boiler—P. F. Welch, \$1,100.00 ; E. T. Shaw Co., \$1,190.00 ; Welch Bros., \$1,110.00 ; H. R. Barker Mfg. Co., \$1,115.00 ; Farrell & Conaton, \$1,305.00 ; D. J. Leary, \$975.00* ; C. H. Hanchett & Co., \$1,390.00 ; Scott & O'Day Co., \$1,114.00 ; Carroll Bros., \$1,215.00.

Central Fire Station—New boiler—P. F. Welch, \$999.00 ; E. T. Shaw Co., \$1,065.00 ; Welch Bros., \$1,060.00 ; H. R. Barker Mfg. Co., \$1,060.00 ; Farrell & Conaton, \$1,285.00 ; D. J. Leary, \$890.00 ;* Scott & O'Day Co., \$1,021.00 ; Charles Hanchett, \$1,420.00 ; Carroll Bros., \$1,229.85.

City Hospital—Plumbing for bath rooms—E. T. Shaw Co., \$877.00 ; H. H. Wilder & Co., \$889.00 ; H. R. Barker Mfg. Co., \$918.00 ; Scott & O'Day Co., \$868.00.*

Protective Fire House—Plumbing for bath room—T. Costello, \$404.00 ; E. T. Shaw Co., \$384.00 ; Charles Hanchett & Co., \$264.00 (bid withdrawn) ; Carroll Bros., \$465.00 ; Harry S. Drury, \$412.00 ; H. H. Wilder & Co., \$389.00 ; Scott & O'Day Co., \$389.00 ; Gaffney & Kerwin, \$379.00* ; Welch Bros., \$426.00 ; Farrell & Conaton, \$408.00.

Electric wiring—Harry F. Harding, \$170.00 ; Tucke & Parker Co., \$137.00 ; L. A. Derby & Co., \$121.00*.

Plastering rooms—B. F. Crosby & Co., \$117.00* ; D. H. Walker, \$125.00 ; M. F. Connor, \$125.00.

PUBLIC BUILDINGS AND SCHOOLS VALUATION

City Hall, granite.....	\$410,000
Memorial Building, granite	200,000
Police Station, Stable, City Scales and the Public Landing, brick	98,250
Lighting Station, Willie Street, wood.....	3,000
City Stables, Sheds, Board of Health Stables, City Carpenter Shop and other buildings on both sides of Broadway, stone, brick and wood	100,000
City Hospital and Almshouse, brick and wood.....	200,000
Rifle Range, wood.....	14,000

FIRE DEPARTMENT

Engine 1, Gorham Street, brick.	27,000
Engine 2, Branch Street, brick	22,000
Engine 3, Palmer Street (Central Fire Station) brick	90,000
Engine 4, High Street, brick	24,000
Engine 5, Mammoth Road, brick.....	15,500
Engine 6, Fletcher Street, brick.....	18,000
Hose 7, Central Street, brick	11,000
Hose 8, Merrimack Street, brick.....	5,000
Hose 9, Lincoln Street, wood.....	5,500
Hose 10, Fourth Street, brick.....	15,000
Hose 11 and Truck 1, Lawrence Street, brick.....	26,000
Hose 12 and Truck 4, West Sixth Street, brick	38,000
Truck 2 and Chemical, Westford Street, brick.....	18,000
Protective 1, Warren Street, brick	11,000

GRAMMAR AND HIGH SCHOOLS

High, Kirk and Anne Streets, brick, 20 rooms and hall.	250,000
High Annex, John and Paige Streets, brick, 16 rooms and drill hall	105,000
Bartlett (old), Clark Street, brick, 8 rooms	25,000

Amount carried forward	\$1,731,250-
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Amount brought forward.....	\$1,731,250
Bartlett (new), Wannalancit Street, brick, 16 rooms and hall..	108,000
Butler, Gorham Street, brick, 12 rooms and hall.....	63,000
Colburn, Lawrence Street, brick, 8 rooms.....	25,000
Edson, Highland Street, brick, 11 rooms.....	25,000
Franklin, Branch Street, brick, 8 rooms.....	25,000
Green, Merrimack Street, brick, 10 rooms and hall.....	105,000
Greenhalge, Ennell Street, brick, 10 rooms and hall.....	75,000
Highland, Pine Street, brick, 12 rooms and hall.....	67,000
Lincoln, Chelmsford Street, brick, 12 rooms and hall	77,000
Moody (old), East Merrimack Street, brick, wood ell, 10 rooms	20,000
Moody (new), Rogers Street, brick, 12 rooms and hall.....	80,000
Mann, Broadway, brick, 8 rooms ; wood, 12 rooms	25,000
Pawtucket, Mammoth Road, brick, 8 rooms and hall.	53,000
Riverside, Woburn Street, wood, 8 rooms.....	35,000
Varnum, Myrtle Street, brick, 17 rooms and hall.....	110,000
Training, Charles Street, wood, 7 rooms and hall.....	31,000
Washington, Lang Street, brick, 10 rooms and hall.....	90,000

PRIMARY SCHOOLS

Agawam Street, wood, 4 rooms.....	9,000
Ames Street, wood, 4 rooms.....	9,500
Billings Street, wood, 4 rooms.....	16,000
Central Street, wood, 4 rooms	13,500
Cross Street, brick, 4 rooms.....	24,000
Carter Street, brick, 8 rooms and hall.....	52,000
Chapel Street, wood, 2 rooms.....	4,600
Cottage Street, wood, 2 rooms	4,500
Charles Street, wood, 4 rooms.	20,000
Cabot Street, brick, 4 rooms	23,500
Cheever Street, wood, 4 rooms	12,000
Dover Street, wood, 4 rooms.....	13,500
Favor Street, brick, 4 rooms	28,000
Fayette Street, wood, 2 rooms (unused).....	3,500
Grand Street, wood, 2 rooms	5,000
Howard Street, brick, 2 rooms	5,000
High Street, wood, 3 rooms	9,000
Kirk Street, brick, 2 rooms.....	18,000
Lyon Street, brick, 4 rooms	20,000
Lyon Street Annex, wood, 1 room	5,400
Lexington Avenue, wood, 2 rooms	10,000
Lakeview Avenue, wood, 4 rooms.....	8,500
London Street, wood, 2 rooms	} 6,000
London Street Annex, wood, 2 rooms.....	

Amount carried forward..... \$3,065,150

Amount brought forward.....	\$3,065.150
Mammoth Road Kindergarten, wood, 1 room	4,000
Morrill, brick, 4 rooms.....	19,000
Middlesex Village, wood, 4 rooms	16,000
Moody Street, wood, 6 rooms.....	20,000
Oakland, wood, 2 rooms	12,000
Old Middlesex Village, wood, (unused).....	2,000
Plain Street, wood, 6 rooms	21,000
Powell Street, wood, 2 rooms.	8,000
Pond Street, wood, 2 rooms	6,000
Pine Street, wood, 4 rooms.....	23,000
School Street, wood, 2 rooms (unused).....	7,500
Tenth Street, wood, 4 rooms	9,000
Worthen Street, brick, 5 rooms.....	25,000
Weed Street, wood, 4 rooms	10,500
West Sixth Street, wood, 4 rooms.....	7,000
Total value of real estate under care of Buildings Department.	<u>\$3,255,150</u>

**Estimated value of the property belonging to and in
care of Buildings Department at work shop
on Broadway and in office at
City Hall**

Buildings—shop and store houses.....	\$11,000 00
Machinery, tools, etc.....	2,900 00
Hardware	125 00
Lumber	475 00
School furnishings.....	2,500 00
Elections property.....	3,700 00
Coffins, stock and tools.....	300 00
Stable property	1,500 00
Mason stock and tools.....	170 00
Pipers' stock and tools.....	525 00
Painters' stock and tools	1,000 00
Office property.....	900 00
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Total.....	\$25,095 00

BUILDING INSPECTION

Building Operations for the Year Ending December 31, 1910

The past three years have developed great activity in the building line. This would seem to show that although Lowell for several years showed little progress by way of building new structures, seems now to have taken on a new lease of life, so to speak, and is now among the growing cities of the Commonwealth.

It is a pleasure to be able to say we are again growing, and if the textile industry would only show the same activity that has previously characterized it, the hum of industry would be everywhere apparent.

The past year has been especially productive in the building line, and the indications are that during the year 1911 the good work will continue. With an ever increasing demand by small industries for locations in this city, and through the active work of our local Board of Trade in securing these industries, the future of Lowell is assured. Our industries are the foundation of the city's growth and unless they increase in size and number we cannot expect to grow. It is a noticeable fact that during the years when the large corporations are making extensive improvements to their property, a great number of dwellings are also built. Such has been the case during the past three years.

The following tables show a summary of the permits issued during the year for both new buildings and alterations to old buildings. As shown in the first table the total number of permits issued was 562 against 506 for the year previous showing an increase during the year of 56, while the estimated cost of the work for 1910 was \$1,777,654 against \$1,328,853 for the previous year, showing that the value of work was \$448,801 greater in 1910 than in 1909.

Table of Building Operations

MONTH	NEW BUILDINGS			ALTERATIONS AND ADDITIONS			SUMMARY	
	Wood	Brick or Fire Proof	Estimated Value	To Wooden Buildings	To Brick or Fire Proof Buildings	Estimated Value	Whole Number Permits	Total Estimated Value
January	6	..	\$ 16,650	13	3	\$ 4,640	22	\$ 21,290
February	15	..	20,400	12	5	5,150	32	25,550
March	31	6	401,385	40	3	34,310	80	435,695
April	24	1	159,920	22	4	92,625	51	252,545
May	35	1	109,065	31	2	14,118	69	123,183
June	26	1	60,650	22	1	12,035	50	72,685
July	9	1	26,500	16	6	50,115	32	76,615
August	17	3	300,460	21	4	16,225	45	316,685
September	20	1	28,830	30	..	19,300	51	48,130
October	22	..	30,675	20	..	13,500	42	44,175
November	25	1	86,425	21	3	15,600	50	102,025
December	16	4	230,536	15	3	28,540	38	259,076
Totals	246	19	\$1,471,496	263	34	\$306,158	562	\$1,777,654

NEW BUILDINGS

Permits Issued for New Buildings, Showing Number Issued each Month
and Total for Year

Kind of Building	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
One family dwelling ....	..	10	4	7	13	10	4	4	1	4	8	8	73
Two family dwelling	3	1	7	6	11	4	2	6	8	6	7	3	64
Three family dwelling ..	..	..	2	2	1	4	..	1	1	..	1	..	12
Four family dwelling ....	..	1	..	..	..	..	..	..	..	..	4	..	5
Six family dwelling	1	..	3	1	1	..	1	..	..	..	2	..	9
Manufacturing buildings.	1	1	4	1	1	..	..	..	..	..	1	1	10
Business buildings .....	..	..	1	..	..	..	..	1	..	..	..	..	2
Stores .....	..	..	2	..	1	..	..	..	..	..	..	1	4
Warehouses .....	..	..	1	..	..	..	1	..	..	..	..	1	3
Henhouses	1	1	1	2	..	..	..	..	1	..	..	..	6
Garages and 'Auto houses	..	1	4	2	3	7	1	2	5	3	2	1	31
Storage, wagon sheds, etc.	..	..	6	4	2	2	1	3	4	8	1	3	34
Barns .....	..	..	2	..	2	..	..	..	1	1	..	2	8
Church .....	..	..	..	..	1	..	..	..	..	..	..	..	1
Club House .....	..	..	..	..	..	..	..	1	..	..	..	..	1
Theatre .....	..	..	..	..	..	..	..	1	..	..	..	..	1
School House .....	..	..	..	..	..	..	..	1	..	..	..	..	1
Totals	6	15	37	25	36	27	10	20	21	22	26	20	265

SOME OF THE IMPORTANT BUILDINGS

The following are some of the larger jobs for which permits were issued during the year :

Lowell Textile School, brick addition, Colonial avenue ; Boott Mills, rebuilding engine room, Amory street ; U. S. Cart-ridge Co., three story brick addition, Lawrence street ; Empire Theatre, addition and alteration, Merrimack street ; I. O. O. F. Building, interior alterations, Middlesex street ; Lowell General Hospital, additions, Varnum avenue.

New buildings—Keith Theatre, Bridge street ; Merrimack Square Theatre, Paige street ; Y. M. C. A. Building, Merrimack street ; John H. Harrington Building, Central street, business block ; Massachusetts Cotton Mills, two five-story mills, one on East Merrimack street and the other along the Concord River, an additional story to two other mills, power station and coal pocket along the Merrimack River front of property, two additions to dye house building, a twelve-story concrete warehouse on Bridge street ; Appleton Company, large brick stable on Jackson street, and store and apartment building on Middlesex street ; George R. Dana's garage on East Merrimack street ; P. A. Poissant, five-story brick warehouse, Howard street ; Bigelow Carpet Co., power house, yard off Market street ; Hildreth Heirs, business block on Paige street ; Harvard Brewing Company, condenser building off Payton street ; Lowell Gas Light Company, office and workshop on School street ; Joseph Marin garage on Pawtucket street ; Polish National Catholic Church on Lakeview avenue.

Many dwellings were erected during the year as shown by the table numbered two, among the residences erected were the following :

Harry Boardman's and Frank B. Trull's on Andover street ; Mrs. J. E. Marshall's on Clark road ; J. A. McKenna's on Holy-

rood avenue ; C. S. Shepard's on Hanks street ; Joseph W. Griffin's on Monadnock avenue ; John R. McArdle's and William E. Rowlandson's on Parkview avenue ; two houses for E. A. Smith on Florence avenue ; five houses for F. E. Harris on Wilder and Harris avenue ; Amy T. Richardson's and James T. Evans' on Beacon street ; Burton H. Wiggin's on Westford street and many others.

Among the better class of two family dwellings were the following :

Six houses for M. Salano on Webber street ; James McLellan's on Webber street ; Mrs. A. J. Wardell's, Mrs. Delia A. Campbell's, Martin L. Kirkby's all on Westford street ; four houses for Dr. Samuel Patenaude on Walker street ; James B. O'Malley's on West Bowers street ; David Gillis house on Parkview street and many others.

GAS PIPING INSPECTION

Following is a brief summary of the work done by the Inspector of Gas Piping :

Buildings Inspected

New Buildings		Old Buildings (extensions and new work)
One family dwelling	63	52
Two family dwellings	57	24
Three family dwellings	16	6
Houses for four or more families	16	21
Lodging houses.....		2
School houses.....	3	
Church	1	
Theatres	2	
Store buildings	10	3
Business blocks	3	
Additions		41
Totals	171	149

Visits of Inspection

To new buildings.....	417
To old buildings	340
Total	757
Visits on unfinished work to Dec. 31, 1910	35
Jobs not approved	7
Complaints investigated	14

CONCLUSION

During the year I have made some six hundred odd visits to buildings being erected or altered, or where complaint had been made regarding some alleged nuisance or violation of the Building Ordinance. Several complaints were made regarding the unsafe condition of buildings, each of these I investigated and required the owners of the property to make necessary repairs ; in some instances where the buildings were beyond repair I ordered the owners to tear them down.

I feel I have done my duty and know I have been impartial in dealing with each case. I have played no favorites but have insisted on a strict compliance with the law. It has been impossible for me to give to this work the attention it really demands for the reason that so much of my time is required in supervising repairs on public buildings and other work incumbent upon me in connection with my office. So much for building inspection, now for a word regarding the condition of public buildings.

I feel that most of the buildings are now in better condition than they have been for a great many years. With a very limited appropriation, I have tried to make every dollar expended on them show a proper return. There have been extensive repairs made to many buildings, I shall not enumerate them here, because the synopsis of the work previously given shows in a brief way just what the repairs were, suffice to say that for the amount of money at my disposal I feel that a good showing has been made, but there still remains much to be done.

There are two buildings which I feel it is a waste of money to repair, namely : Hose 8 House on Merrimack street, corner of Race street, and the Board of Health stables on Broadway and Cross street.

Hose 8 House is a very old building, previous to being changed over for fire department purposes, having been used for

about a half century, I am told, as a school house. The stable part is too small, allowing scarcely room to move around behind the stalls; besides, in up-to-date houses separate rooms are provided for the men, while in this house five men are sleeping in one small room. The bath room and plumbing is very old, in fact the house is in need of repairs from cellar to attic, and after expending several thousand dollars on repairs it would still be an old house. I would therefore recommend that a new and modern building be erected on the site, one that would be a credit to the city to own, and I would ask that the City Council appropriate say \$20,000 for this work. I am sure that a suitable house would cost in the neighborhood of that amount.

Regarding the stables of the Board of Health, I will say that the buildings now known as the Board of Health Stables would make "shanty town" blush. They are tumble down structures that years ago should have been reduced to ashes. Everyone knows what these buildings are so that it is unnecessary for me to say more regarding their condition and their total unfitness for service.

I would ask that an appropriation of \$25,000 be made by the City Council for a modern brick stable that would take the place of all the old wooden buildings now in the Health Department Yard. Such a structure I have planned, about 210 feet long by 40 feet wide and two stories high with 48 stalls, carriage and wagon rooms, hay loft, blacksmith shop, office, etc. It need not be a fancy structure but a good substantial building, that will meet the needs of the department and a growing city for years to come.

The second story of Hose 7 House on Central street at the corner of North street, should be divided into separate rooms for the men. Where five or more men sleep in one large room there is always great dissatisfaction; it is often the case that one man may interrupt the slumber of all the others.

Another matter that I feel should receive immediate attention is the question of seizing land for the West London School. The City Council voted to seize the land where the

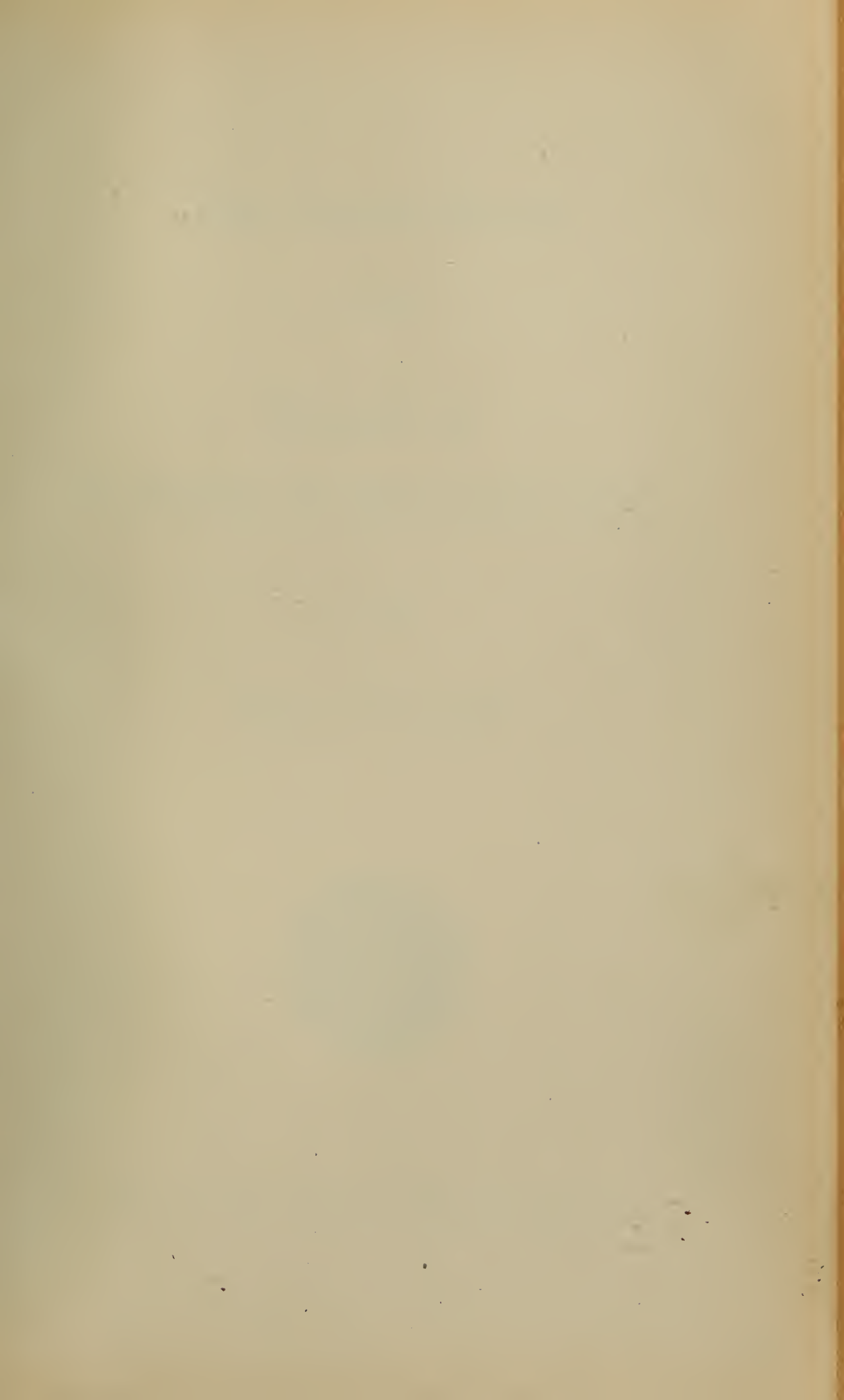
school now stands, and the resolution was approved by the Mayor on December 15, 1910, but that is as far as the matter has progressed up to the present. The next step is to appraise the property and take legal steps to secure the property. To do this we must have money.

This building was moved to its present location on West London street some twenty years ago and placed on leased land ; the city has been paying \$50 each year since for rental of the land, while the land itself is assessed for only five cents per foot. Very little repairs have been made to the building during these twenty years, so that at present the building is in a very bad condition. There never was a foundation under the building, it having been placed on posts which together with the sills and some of the floor timbers are now so decayed that the building will topple over unless something is done soon. A foundation should be placed under the building, the sills and floor timbers renewed, toilets should be installed and the building connected with the sewer, it should also receive a general overhauling and repaired throughout and painted. For repairs to buildings and purchase of the land at five cents per foot at least \$1500 will be required.

Respectfully submitted,

JAMES DOW,

Inspector of Buildings.



Fifth Annual Report

OF THE

Board of
Charity Commissioners

OF THE

City of Lowell



For the Year Nineteen Hundred and Ten

Butterfield
Printing
Company
.. Lowell ..
.. Mass. ..

The Board of Charity Commissioners

appointed by Mayor John F. Meehan
January, 1910.

NAME	Term Expires
DR. JAMES J. McCARTY	1915
FRANK RICARD	1914
H. W. J. HOWE	1913
JOHN H. BURNS	1912
MATTHEW COUPE	1911

Meetings

First week and third Tuesday of each month

General Superintendent

MARTIN F. CONLEY

Office Hours:—9 a. m. to 4 p. m.

Dispensary:—9 a. m. to 1 p. m. and 2.30 p. m. to 5 p. m.

Telephones

City Hall Office	566-3
Chelmsford Street Hospital	323-3

City Physician

DR. FORSTER H. SMITH	Residence, 832 Merrimack St.
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District Physicians

District One, DR. T. J. HALLORAN	4 Runels Building
“ Two, DR. A. J. HALPIN	3 Swan Building
“ Three, DR. JAMES E. LEARY	322 Merrimack St.
“ Four, DR. ARTHUR E. GUILLARD	32 John St.
“ Five, DR. DAVID S. BELLEHUMEUR	813 Merrimack St.
“ Six, DR. ALEXIS E. BERTRAND	Runels Building

Patients treated at the Dispensary daily, Sundays and
Holidays excepted, from 11 a. m. to 12 noon.

OFFICE OF THE BOARD OF CHARITIES,

City Hall, March 21, 1911.

TO HIS HONOR, JOHN F. MEEHAN, MAYOR, AND THE
HONORABLES, THE MEMBERS OF THE CITY COUNCIL,
LOWELL, MASS.

GENTLEMEN :

We have the honor to present the following as the Fifth Annual Report of the Board of Charity Commissioners for the year 1910.

JAMES J. McCARTY, *Chairman*

FRANK RICARD

HARRY W. J. HOWE

JOHN F. BURNS

MATTHEW COUPE

Board of Charities.

Report of Superintendent

LOWELL, MASS., March 21, 1911.

TO THE CHAIRMAN AND MEMBERS OF THE
BOARD OF CHARITY COMMISSIONERS,
LOWELL, MASS.

GENTLEMEN :

In accordance with the rules of your honorable Board, I herewith submit my annual report as General Superintendent for the municipal year 1910.

The results of the year's work just closed show very gratifying conclusions, despite obstacles which made the administration a trying one in many details of the department's work.

While the general expenditures show an increase over the preceding year, this can in no way be attributed to lack of zeal in the work of each of the department branches. Those in charge have given their best efforts to obtain the results which prove their diligence and attention to duty. While the increased expenditures may apparently seem to indicate that the number assisted by the department is becoming greater each year, which is undoubtedly true, yet conditions during the past year have tended to make the increase larger than under ordinary circumstances and a normal state of business conditions. The immense curtailment, which has been so pronounced in the manufacturing business generally, has caused great distress to the laboring classes in our own city.

As an inevitable result of the great business depression of the past year this department has been over-run with applicants for assistance of all kinds.

OUT DOOR RELIEF

WOOD YARD

The total cost of the wood yard for 1910 shows an increase of \$1,659.48 over the cost for the previous year. This increase is largely due to the fact that while but \$331.20 was paid for coal in 1909, \$1,817.92 was paid in 1910. It has been customary in the department for years to purchase the yearly supply of coal in the spring of each year; however, in 1909 there was a departure from the usual custom and the regular yearly supply of coal was not purchased and but three weeks supply of coal, from December 1 to December 21, 1909, was paid for from the appropriation of 1909. The coal distributed by the Out Door Relief from December 22, 1909 to the close of the winter, amounting to \$705.52 together with the amount paid in May, 1910, for the yearly supply, \$1,112.40, making a total of \$1,817.92, was paid for from the appropriation of 1910.

The amount paid for coal for the present year will show a decrease of several hundred dollars, as the only coal to be paid for will be the yearly supply which will be purchased in the spring.

DISPENSARY

This branch of the department is conducted on the same general principles as formerly. The Dispensary is greatly in need of an improved and a larger system of card indexing, as the present equipment is entirely inadequate to meet the demands. I would recommend that this matter be given immediate attention.

SICK POOR IN LOCAL HOSPITALS

The number of city cases cared for in local hospitals in 1910

was 59; number of state and out of town cases cared for 44, making a total of 103 cases paid for by the city; an increase of \$2.00 per week in the charges for our cases at the local hospitals since March 1, 1910, has caused an increase of \$278.98 over the amount paid the previous year.

CASH ALLOWANCES

The amount expended in cash allowances during the year was \$1,963.74, being \$288.81 less than the previous year. This form of aid is determined by the Board, as the superintendent can only recommend.

CARE OF CHILDREN

The amount paid for care of children in institutions during 1910 was \$3,506.13, an increase of \$306.51 over the year previous; 51 children were cared for during the year, of whom 37 remained at the beginning of the present year. Twelve more children were cared for in institutions at the expense of this department in 1910 than in 1909.

PHYSICIANS

This is one of the important divisions of the Out Door Relief. The total number of cases treated at their homes by the district physicians during the year was 858. This number of cases treated at their homes does not represent the number of visits so made, as about every home case will average three visits. The number of cases treated at the dispensary was 4496; number of prescriptions compounded at dispensary, for Out Door Relief, in 1910 was 8545, an increase of 320 over the previous year.

CHELMSFORD STREET HOSPITAL

The hospital has been a busy place during the year just closed, the average daily population showing 398 inmates against a daily average for the previous year of 361; the total population today is 490.

This increase is due primarily to the industrial depression of the times, which has forced many to seek the refuge of this department. Another cause which may be assigned for the increase is the fact that the industrial establishments have dispensed with the services of a great number of employees and as a result they have been placed upon dependent resources and a good number have become inmates of this institution. This class is mostly of the aged and helpless.

This increase overtaxed the available accommodations and changes became necessary. By the removal of several closets and utilizing the floor space which was formerly used as a hallway two new and very pleasant dining rooms were made. The number of patients in the infirmary and the condition of many of them, who were unable to walk up stairs, made it imperative to enlarge the department used by the older men and the former reception room was converted into a dormitory for this class.

Three modern bathrooms have been installed in the women's department and, while these make a very great and much needed improvement, there is still necessity for more improvements, as in one dormitory of thirty-six beds there is no bath or toilet. In the men's infirmary of sixteen rooms there were no lighting facilities, now those rooms are equipped with electric lights. In the Administration Building a number of double beds, which were condemned by the State Board of Charities, have been remodeled in our own work-shop, and the change has fully covered the recommendation of the State Board of Charities.

The equipment of the women's department at the beginning of the year was found inadequate. The beds were in a very poor condition and it became necessary to have forty-nine new beds, eight dozen chairs, eight dozen pairs of new pillows besides blankets, sheets, etc.

THE FARM

The farm as in years past has yielded a large amount of produce. The hay crop was exceptionally good, the English hay being fifty-four tons, the green-feed product about sixty-five tons, giving sufficient to keep the live-stock throughout the year. There has been several improvements made in the farm buildings, the construction of a large hot-bed (70 ft. x 7 ft.) constructed of cobble stones, laid in cement at a cost of fourteen dollars and five cents (\$14.05). The green house has been re-piped for hot water heating and a new brick foundation built at very little cost. At the piggery a large cement garbage box has been built and the fire box of the heater enlarged. These changes were required improvements.

The number of pigs killed and dressed gave a sufficient amount of pork to supply the entire department throughout the year.

A horse fork for hay with run attachment at the barns, would be an advantage over the slow method now employed. Running water in the cow barn would be an improvement worthy of consideration. There are other changes and improvements that I would be pleased to call to the Board's attention at some future visit to the farm.

In conclusion, I wish to extend my sincere thanks for the efforts by the Board and their hearty co-operation in assisting me in placing the department in the high position of respect and confidence that it is held at present by the citizens, equal to any previous administration. In closing I would respectfully invite your attention to the following detailed account of the work of the department.

**NUMBER OF FAMILIES AIDED TO PROVISIONS AND FUEL
DURING 1910**

	Number of Families	Males	Females	Total Num- ber of per- sons aided
Lowell Cases	516	685	895	1580
City and Town Cases	45	75	110	185
State Cases	124	359	317	676
Totals	685	1119	1322	2441

Total number of visits made to the homes of applicants	2,481
Total number of new investigations	262

NUMBER OF HISTORIES OF NEW CASES TAKEN DURING 1910

January	70
February	54
March	43
April	53
May	40
June	36
July	48
August	54
September	43
October	52
November	59
December	61
Total	613

NOTICES RECEIVED IN 1910

	Acknowledged	Denied
State	18	23
Cities and Towns	48	46

**NUMBER OF CASES TREATED AT THEIR HOMES
BY DISTRICT PHYSICIANS IN 1910**

	DISTRICTS						
	One	Two	Three	Four	Five	Six	Total
January	11	16	9	21	41	12	110
February	15	10	12	24	13	10	84
March	14	12	13	11	22	10	82
April	13	6	11	12	27	11	80
May	6	9	7	20	15	8	65
June	13	9	7	9	12	7	57
July	15	10	12	9	24	8	78
August	12	5	6	12	15	8	58
September	6	4	5	9	13	9	46
October	4	12	12	9	19	13	69
November	6	9	12	13	8	6	54
December	17	8	16	7	13	14	75
Totals	132	110	122	156	222	116	858

**NUMBER OF CASES TREATED AT CITY DISPENSARY
BY DISTRICT PHYSICIANS FOR 1910**

	DISTRICTS							Number of prescriptions compounded
	One	Two	Three	Four	Five	Six	Total	
Jan.	147	34	50	45	55	73	404	866
Feb.	87	32	43	69	67	69	367	762
March ..	118	64	67	50	76	83	458	833
April ..	82	44	41	54	83	85	389	738
May	64	61	19	68	68	60	340	727
June	66	38	36	71	45	71	327	646
July	53	47	39	73	56	66	334	616
Aug.	82	47	33	66	61	75	364	657
Sept.	59	76	41	30	95	88	389	638
Oct.	110	60	23	47	73	111	424	664
Nov.	90	44	44	34	46	82	340	665
Dec.	32	56	34	61	97	80	360	733
Totals ..	990	603	470	668	822	943	4496	8,545

AMBULANCE REPORT FOR YEAR ENDING MARCH 1, 1911

	Removals	Accidents	Attended by Physicians
March	102	40	19
April	116	41	30
May	103	40	33
June	93	48	38
July	78	60	42
August	72	43	42
September	103	40	29
October	85	42	35
November	94	41	38
December	103	48	39
January	134	37	28
February	103	25	23
Totals	1,186	505	396

**AMOUNT PAID FOR SICK POOR IN LOCAL HOSPITALS
FOR YEAR 1910**

	ST. JOHN'S HOSPITAL		LOWELL HOSPITAL		Total
	City Cases	State, City and Town Cases	City Cases	State, City and Town Cases	
January	\$ 115.69	\$124.84	.....	.....	\$ 240.53
February	34.99	20.00	.....	.....	54.99
March	95.00	46.00	.....	20.71	161.71
April	118.00	96.00	.....	.....	214.00
May	83.00	134.00	5.00	.....	222.00
June	131.00	72.00	.....	.....	203.00
July	150.00	.....	.....	.....	150.00
August	87.00	59.00	.....	.....	146.00
September	48.00	102.00	72.00	.....	222.00
October	105.00	111.00	.....	47.00	263.00
November	119.00	81.00	.....	.....	200.00
December	84.00	41.00	.....	3.00	128.00
	\$1,170.68	\$886.84	\$77.00	\$70.71	\$2,205.23

Number of City Cases cared for during the year 59

Number of State, City and Town Cases cared for during the year 44

Total number of Cases cared for during the year 103

AMOUNTS PAID TO CITIES AND TOWNS
On Account of Lowell's Cases Residing Therein

CITIES		TOWNS	
Beverly	\$ 61.05	Billerica	\$ 51.00
Boston	663.40	Chelmsford	42.94
Cambridge .....	.85	Clinton	48.00
Fall River	48.40	Natick	24.50
Fitchburg	17.80	Sturbridge	112.00
Haverhill	90.95	Sutton	49.86
Holyoke	399.92	Westford .....	.60
Lawrence	479.73	Weymouth	267.55
Melrose	53.21		
New Bedford	13.50		
Northampton	43.00		
Salem	231.40		
Springfield	178.20		
Worcester	345.19		
	<hr/>		<hr/>
	\$2,626.60		\$596.45
<hr/>		<hr/>	
Total Amount Expended		\$3,223.05	

AMOUNTS RECEIVED FROM CITIES AND TOWNS
For Aid Rendered in this City

CITIES		TOWNS	
Boston	\$315.81	Amesbury	\$105.00
Cambridge	1.43	Attleborough	1.00
Chelsea	29.00	Billerica	44.00
Chicopee	18.23	Blackstone	3.50
Fall River	40.00	Chelmsford	23.73
Fitchburg	32.14	Clinton	31.00
Gloucester	1.00	Concord .....	.50
Haverhill	41.55	Dedham	10.23
Holyoke	20.50	Dracut	244.67
Lawrence	128.14	Dudley	1.00
Lynn	27.25	Framingham	34.50
Malden	1.04	Hardwick	19.00
Marlborough	2.00	Ipswich	9.00
New Bedford	38.00	Leominster	5.00
Newburyport	2.00	Maynard	3.50
Salem	107.87	Merrimac	3.50
Woburn	54.96	Natick	15.00
Worcester	18.00	Peabody	6.00
		Stoneham	12.00
		Tewksbury	10.23
		Ware	18.25
		Webster	5.00
		Westford	33.23
	<hr/>		<hr/>
	\$878.92		\$638.84

Total Amount Received \$1,517.76

**AMOUNT PAID FOR DEPENDENT CHILDREN OUTSIDE OF
CHELMSFORD STREET HOSPITAL FOR YEAR 1910**

	Rate per month	Amount Paid	Number during 1910	Remaining Jan. 1, 1911
St. Peter's Orphan Asylum.....	\$6.00	\$ 913.50	15	13
House of the Angel Guardian	8.00	672.00	7	7
French American Orphanage	Per week 1.40	781.20	18	9
Children's Home, Lowell.....	1.50	19.50	1	—
Lawrence Orphan Asylum.....	1.50	202.68	3	2
Hospital Cottages, Baldwin- ville	3.25	338.90	2	2
Home for Little Wanderers, Boston	1.50	67.50	1	1
Mass. Hospital School, Canton	4.00	510.85	4	3
Totals		\$3,506.13	51	37
In Private Families		\$ 103.15	3	1
Totals		\$3,609.28	54	38

**TOTALS OF OUT DOOR AID, JANUARY 1, TO,
DECEMBER 31, 1910**

	CITY CASES			STATE, CITY AND TOWN CASES			Total
	Wood	Coal	Provisions	Wood	Coal	Provisions	
Jan.	\$ 250.46	\$215.67	\$ 630.93	\$ 54.54	\$ 54.21	\$ 147.07	\$ 1,352.88
Feb.	170.63	206.29	544.61	52.37	67.23	159.39	1,200.52
Mar.	268.41	20.78	569.55	55.59	3.22	126.45	1,044.00
April	236.94	.....	498.83	44.06	.....	90.17	870.00
May	215.01	.....	484.91	37.99	.....	79.09	817.00
June	213.70	.....	492.57	33.30	.....	85.43	825.00
July	190.46	.....	491.70	30.54	.....	90.30	803.00
Aug.	183.46	.....	477.76	32.54	.....	90.24	784.00
Sept.	205.42	.....	478.40	33.58	.....	89.60	807.00
Oct.	209.36	.....	484.67	41.64	.....	105.33	841.00
Nov.	256.00	2.00	539.96	54.00	1.00	123.04	976.00
Dec.	158.93	299.71	637.41	48.07	91.29	197.59	1,433.00
Totals	\$2,558.78	\$744.45	\$6,331.30	\$518.22	\$216.95	\$1,383.70	\$11,753.40

EXPENDITURES OF OUT DOOR RELIEF FOR YEAR 1910

	Pay Rolls	Bills	Salary of General Supt.	Total
January	\$ 353.59	\$ 2,181.22	\$ 166.66	\$ 2,701.47
February	388.32	1,509.39	166.66	2,064.37
March	388.32	1,308.32	166.66	1,863.30
April	485.40	1,481.06	166.66	2,133.12
May	388.32	2,699.84	166.66	3,254.82
June	340.32	2,178.51	166.66	2,685.49
July	425.40	1,773.70	166.67	2,365.77
August	340.32	1,277.32	166.67	1,784.31
September	340.32	2,480.61	166.67	2,987.60
October	437.40	1,747.70	166.67	2,351.77
November	388.32	1,163.93	166.67	1,718.92
December	484.80	2,658.59	166.69	3,310.08
Totals	\$4,769.83	\$22,460.19	\$2,000.00	\$29,221.02

RECEIPTS OF OUT DOOR RELIEF FOR YEAR 1910

	Credited to Appropriation	Credited to Gen. Treas. Fund	Total
January	\$	\$1,152.61	\$1,152.61
February	7.76	46.54	54.30
March	25.07	728.28	753.35
April .....	.....	151.65	151.65
May .....	.....	35.29	35.29
June	124.95	18.90	143.85
July .....	.....	.....	.....
August .....	.....	50.55	50.55
September	20.25	122.33	142.58
October .....	.....	266.81	266.81
November .....	.....	1,348.73	1,348.73
December	45.70	162.74	208.44
Totals	\$223.73	\$4,084.43	\$4,308.16

MONTHLY CASH OUTPUT OF OUT DOOR RELIEF JANUARY 1, TO DECEMBER 31, 1910

	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
Salary of Gen. Supt.	\$ 166.66	\$ 166.66	\$ 166.66	\$ 166.66	\$ 166.66	\$ 166.66	\$ 166.67	\$ 166.67	\$ 166.67	\$ 166.67	\$ 166.67	\$ 166.69	\$ 2,000.00
Office													
Salaries	220.26	212.32	212.32	265.40	212.32	212.32	265.60	212.32	212.32	265.40	212.32	264.80	2,767.50
Bills	29.10	5.45	16.00	62.25	.55	6.50	23.60	9.13	.20	38.47	8.95	17.88	218.08
Ambulances													
Service	208.33	208.33	208.33	208.33	208.33	208.33	208.33	208.33	208.33	208.33	208.33	208.37	2,500.00
Bills	59.98	39.58	70.18	48.02	98.09	78.75	109.09	91.45	63.70	90.88	79.69	154.13	983.54
Dispensary													
Salary	83.33	80.00	80.00	100.00	80.00	80.00	100.00	80.00	80.00	100.00	80.00	100.00	1,043.33
Bills	62.50	189.74	109.91	176.08	157.85	93.00	182.30	158.10	107.21	47.75	258.92	89.51	1,632.87
Wood Yard													
Salaries	50.00	96.00	96.00	120.00	96.00	48.00	60.00	48.00	48.00	72.00	96.00	120.00	950.00
Bills	458.62	290.37	74.92	164.42	1,410.33	14.39	11.95	46.23	190.01	275.21	10.31	181.44	3,128.20
Burials	22.25	13.00	27.00	11.00	15.00	311.00	25.00	44.00	181.00	20.00	13.00	128.00	810.25
Cash Allowances	162.83	160.00	159.33	158.86	162.00	158.86	154.78	153.14	155.15	170.71	179.44	188.64	1,963.74
Cities and Towns	610.37	123.87	104.30	21.20	25.21	413.55	504.34	162.08	304.28	208.92	.....	744.93	3,223.05
Clothing and Shoes ..	4.50	7.00	.....	6.75	.....	4.50	.....	.....	.....	.....	.....	4.95	27.80
Commonwealth .....	.....	.....	.....	.....	.....	108.67	.....	.....	565.71	.....	.....	98.51	772.89
Local Institutions ...	378.73	194.59	307.91	374.80	368.20	359.00	303.00	270.80	373.10	390.80	330.50	268.00	3,919.43
Outside Institutions ..	56.00	121.48	112.00	110.21	154.28	262.21	142.00	34.06	210.06	194.14	.....	438.35	1,834.79
Physicians	105.33	132.67	115.99	115.99	100.00	83.32	99.99	100.00	116.67	99.99	66.67	133.38	1,270.00
Transportation	22.68	23.31	2.45	23.15	.....	76.43	9.32	.....	5.19	2.50	8.12	2.50	175.65
Totals	\$2,701.47	\$2,064.37	\$1,863.30	\$2,133.12	\$3,254.82	\$2,685.49	\$2,365.77	\$1,784.31	\$2,987.60	\$2,351.77	\$1,718.92	\$3,310.08	\$29,221.02

**FINANCIAL STATEMENT OF OUT DOOR RELIEF
FOR YEAR 1910**

Credits

Appropriation	\$26,000.00
Additional Appropriation	2,997.29
Receipts Credited to Appropriation	223.73
Total	<u>\$29,221.02</u>

Debits

Total Out Door Relief Expenditures	\$29,221.02
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Total Expenditures of Out Door Relief	\$29,221.02
Amount of provision orders delivered from Chelmsford St. Hospital for Out Door Relief	7,715.00
	<u>\$36,936.02</u>
Less amount for medicines, etc. sent to Chelmsford St. Hospital from City Dispensary	1,191.85
	<u>\$35,744.17</u>
Actual cost of Out Door Relief for year 1910	4,308.16
Less Receipts	<u>\$31,436.01</u>
Total Net Expense of Out Door Relief for 1910	

DAILY POPULATION, 1910

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	403	429	438	404	394	364	351	364	382	402	399	428
2	404	429	437	405	394	360	352	364	383	403	405	428
3	406	430	439	406	394	360	351	366	388	406	408	430
4	408	432	439	406	391	367	351	370	388	406	409	430
5	408	434	439	396	392	367	349	370	390	406	410	432
6	410	434	437	395	391	367	349	371	393	406	408	432
7	411	435	436	392	392	371	347	372	393	406	412	432
8	415	438	436	393	395	371	348	373	399	398	416	439
9	416	437	436	395	395	369	348	372	398	393	418	439
10	416	443	435	395	397	361	348	373	398	393	419	439
11	416	442	433	393	397	361	347	371	398	392	417	441
12	415	442	432	391	398	361	346	371	393	392	419	437
13	416	442	433	394	389	360	346	371	393	395	419	440
14	417	441	432	398	388	360	350	371	394	395	415	441
15	417	440	435	398	388	348	350	371	394	394	414	441
16	417	440	425	400	390	347	350	367	394	394	413	445
17	418	440	425	400	381	352	350	368	391	394	417	443
18	422	441	421	400	381	352	350	369	391	392	417	441
19	422	441	420	402	381	350	348	371	392	390	418	441
20	421	440	418	400	378	351	347	372	392	387	418	444
21	420	442	417	398	377	353	357	372	399	387	418	441
22	420	441	419	398	376	352	359	374	397	387	420	441
23	423	443	422	398	376	349	366	379	399	384	422	441
24	425	444	421	398	369	351	366	373	396	389	420	442
25	426	448	422	395	368	351	364	373	395	389	420	442
26	430	447	419	394	373	351	367	371	400	390	420	442
27	429	447	418	389	369	351	365	372	399	397	421	443
28	429	438	418	390	365	350	362	373	401	397	420	444
29	428		417	390	365	352	360	378	401	396	423	442
30	430		407	391	365	352	358	381	401	398	423	448
31	430		402		364		359	383		398		449
Avg.	418	439	426	396	383	357	353	371	394	395	415	439

ADMISSIONS AND DISCHARGES, 1910

MONTH	ADMISSIONS			DISCHARGES		
	Males	Females	Total	Males	Females	Total
January	44	23	67	24	17	41
February	37	14	51	28	14	42
March	35	24	59	66	27	93
April	42	34	76	62	24	86
May	40	23	63	49	44	93
June	37	22	59	41	31	72
July	50	26	76	39	24	63
August	65	30	95	49	28	77
September	56	23	79	45	14	59
October	47	28	75	50	28	78
November	54	35	89	34	26	60
December	42	24	66	27	18	45
Totals	549	306	855	514	295	809

BIRTHS AND DEATHS, 1910

MONTH	BIRTHS					DEATHS		
	Males	Fem'les	Leg.	Illeg.	Total	Males	Fem'les	Total
January	0	0	0	0	0	2	3	5
February	0	0	0	0	0	3	2	5
March	1	0	1	0	1	6	1	7
April	1	1	1	1	2	3	1	4
May	1	0	0	1	1	2	5	7
June	0	0	0	0	0	3	1	4
July	0	0	0	0	0	5	3	8
August	0	0	0	0	0	5	5	10
September	1	0	0	1	1	4	4	8
October	2	1	3	0	3	1	4	5
November	1	2	2	1	3	3	8	11
December	0	0	0	0	0	6	2	8
Totals	7	4	7	4	11	43	39	82

FARM PRODUCTS, 1910

Apples	4 bbls.
Beets	94 bu.
Beans, Butter	43 bu.
Cabbage	348 bbls.
Carrots	210 bu.
Corn, Sweet	111 bu.
Cucumbers	28 bu.
Eggs	211 doz.
Ensilage	80 ton
Fowl	115 lbs.
Lettuce	360 heads
Milk	6,935 cans
Onions	40 bu.
Pears	20 bu.
Peas, Green	43 bu.
Peppers	4 bu.
Pork	15,245 lbs.
Potatoes	741 bu.
Radishes	480 bunches
Rhubarb	800 lbs.
Strawberries	636 qts.
Squash	100 bbls.
Tomatoes	61 bu.
Turnips	387 bu.

Hay

English	52 4/5 ton
Field Corn	600 bu.
Green Feed	40 ton
Hungarian	5 ton
Oat Feed	2½ ton
Rohen	3½ ton
Rye Straw	13 ton

**CHELMSFORD STREET HOSPITAL EXPENDITURES FOR
OUT DOOR RELIEF DEPARTMENT FOR YEAR 1910**

	Cost of Provisions Delivered to Out Door Dept.	Cost of Medicine Received from Out Door Dept.	Net Expense to Chelmsford St. Hospital
January	\$ 778.00	\$ 105.27	\$ 672.73
February	704.00	80.11	623.89
March	696.00	128.31	567.69
April	589.00	119.04	469.96
May	564.00	81.15	482.85
June	578.00	92.71	485.29
July	582.00	87.86	494.14
August	568.00	105.33	462.67
September	568.00	115.26	452.74
October	590.00	90.19	499.81
November	663.00	95.76	567.24
December	835.00	90.86	744.14
Totals	\$7,715.00	\$1,191.85	\$6,523.15

**EXPENDITURES OF CHELMSFORD STREET HOSPITAL
FOR YEAR 1910**

	Sundries	Labor	Salary of Physician	Transfers	Total
January	\$ 2,056.25	\$ 840.10	\$ 58.32	\$	\$ 2,954.67
February	3,134.67	818.00	58.32		4,010.99
March	1,875.66	823.00	58.32		2,756.98
April	2,971.39	1,051.00	58.32		4,080.71
May	3,002.71	885.14	58.32		3,946.17
June	4,202.25	902.00	58.32	\$281.88	5,444.45
July	6,592.31	1,127.50	58.32		7,778.13
August	2,020.95	894.00	58.32		2,973.27
September	3,758.33	902.00	58.32	142.50	4,861.15
October	4,719.20	1,115.50	58.32		5,893.02
November	3,077.65	854.00	58.32		3,889.97
December	3,500.08	1,069.41	58.48	95.00	4,722.97
Totals	\$40,911.45	\$11,281.65	\$700.00	\$519.38	\$53,412.48

**RECEIPTS FOR CHELMSFORD STREET HOSPITAL
FOR YEAR 1910**

	Credited to Appropriation	Credited to Gen. Treas. Fund	Total
January	\$	\$ 8.50	\$ 8.50
February .....	.....	325.00	325.00
March .....	.....	115.50	115.50
April .....	.....	295.18	295.18
May .....	.....	177.72	177.72
June	\$265.24	123.51	388.75
July .....	.....	265.79	265.79
August .....	.....	32.67	32.67
September .....	.....	15.86	15.86
October .....	.....	95.76	95.76
November .....	.....	100.50	100.50
December	\$260.98	228.99	489.97
Totals	\$526.22	\$1,724.98	\$2,251.20

FINANCIAL STATEMENT OF THE CHELMSFORD STREET HOSPITAL FOR THE YEAR 1910

Credits

Appropriation	\$49,000.00
Additional Appropriation	3,886.26
Receipts Credited to Appropriation	526.22
Total	<u>\$53,412.48</u>

Debits

Sundries	\$40,911.45
Labor	11,281.65
Physician's Salary	700.00
Transfers (Bills paid to other Departments)	519.48
Total	<u>\$53,412.48</u>

Total Expenditures of Chelmsford St. Hospital	\$53,412.48
Cost of Provision Orders delivered to O. D. R.	\$7,715.00
Cost of Medicines received from O. D. R.	1,191.85
Net Expense of O. D. R. to Chelmsford St. Hospital	<u>6,523.15</u>
Actual Expense of Chelmsford St. Hospital	\$46,889.33
Less Receipts	2,251.20
Actual Cost of Chelmsford St. Hospital	<u>\$44,638.13</u>

Daily Average Population	398
Weekly Per Capita Cost	\$2.15

P. S. Of the one thousand eleven dollars and ninety cents (\$1,011.90) collected by the Superintendent of 1909 only one hundred thirty-five dollars and seventy-six cents (135.76), the amount returned to the General Treasury Fund, is accounted for in this report.

**FINANCIAL STATEMENT OF CHARITY DEPARTMENT
FOR YEAR 1910**

Gross Expenses

Out Door Relief	\$29,221.02
Chelmsford St. Hospital	53,412.48
	<hr/>
Gross Expense of Entire Department	\$82,633.50

Actual Cost

Out Door Relief	\$35,744.17
Chelmsford St. Hospital	46,889.33
	<hr/>
Actual Cost of Entire Department	\$82,633.50

Net Expense

Out Door Relief	\$31,436.01
Chelmsford St. Hospital	44,638.13
	<hr/>
Net Expense of Entire Department	\$76,074.14

ANNUAL REPORT

OF THE

BOARD OF ASSESSORS

LOWELL, MASSACHUSETTS

FOR THE

Year Ending December 31,

1909



LOWELL, MASS.
BAKER PRINTING CO.
1910.

Assessors Annual Report

ASSESSORS' OFFICE.

Lowell, Mass., Jan. 1, 1910

To His Honor the Mayor and the Members of the City Council.

GENTLEMEN:

We have the honor of presenting the Annual Report of the Board of Assessors for the year 1909. It consists principally of figures, but we necessarily feel called upon to draw attention to some matters with which this department is intimately associated.

The system for assessing taxes adopted by the Assessors of Lowell has evoked favorable comment from many visitors to the department. The Assessors are State as well as Local Officials, and are amenable to the laws governing Assessors throughout the Commonwealth and subject to the penalties provided for any infraction of those laws; such being the case it is fair to presume that the members of the Board would not knowingly place themselves in jeopardy.

From what we have been able to learn there are many individual critics of this department, who might save themselves considerable worry and the Assessors some annoyance were they to air their grievances at headquarters where every consideration would be accorded them and satisfaction given in so far as the Assessors may be able conformably with statute. The Members of the Board being human are liable to err in judgment, but there is legal provision for those who feel hurt by their decision.

While we are unable to prevent irresponsible persons from making unfair statements regarding us, we do strongly object to official charges of favoritism and unjust taxation, made in a spirit of selfishness for the furtherance of one's ambition and when so made we are ready and anxious to vindicate our course by a thorough investigation of our methods and our actions.

The assessments for the year of 1909 were augmented by the returns made by the Tax Commissioner, coming through the medium of the Probate Court, in the December list in 1908, less the amount allowed by abatements. In this connection we are reminded of the saying that "Nothing is so sure as death and taxes," the latter being evidently a secondary consideration, since some taxes can never be levied until after the death of the owner, when the several taxable intangible values are revealed through probate, the conscience of the original owner being at this time unhurt. We respectfully call this to the attention of taxpayers that they may not be betrayed by this latter day revelation.

The change in the law relating to the distribution of the Corporation Tax proved of great benefit to this city where so many Corporations are doing business and it is hoped that the efforts of our representatives, this year, in the Legislature may be crowned with success, so that our City may obtain the full amount of the tax to which we believe she is entitled.

Again the City loses a goodly portion of the tax assessed by the State against individuals, trustees, etc. for shares owned or held by them, by reason of the neglect on the part of said owners or trustees to make proper returns of their holdings to the Tax Commissioner's Department each year. We have found upon inquiry, that in some cases, this neglect is due to oversight on the part of those interested, as when apprised of the facts, they were only too eager to do everything possible to have the tax credited to Lowell.

We are now pleased to submit the figures pertaining to the work of the department for the year 1909.

TAX WARRANTS

Warrants for the assessments of taxes in the City of Lowell for the financial year, beginning January 1, 1909, were received by the Board of Assessors as follows:—

A State warrant for the proportion of the City of Lowell of a state tax of \$4,500,000.00 in accordance with the provisions of Chap. 533 of the Acts of the year 1909....	\$98,685 00
A State warrant for a tax to be paid to the Commonwealth, known as a State Highway Tax.....	132 65
A County warrant for the tax of Middlesex County, for County purposes, it being the City's proportion of a tax of \$672,261.19 as per resolve of the General Court of the year 1909.....	84,553 14
A City warrant for the tax of the City of Lowell for City purposes, as per Order of the City Council, approved February 18, 1909.....	1,402,300 00
A City warrant for a tax of the City of Lowell, it being the amount of an appropriation for the Lowell Textile School, in accordance with Chapter 75 of the Acts and Resolves of the year 1909, approved by the Mayor May 27, 1909.....	8,000 00
Total amount of Tax Warrants for 1909.....	<u>1,593,670 81</u>

POLL TAX ASSESSMENTS

The number of polls assessed up to the time of commitment, Sept. 2nd 1909, and included in the figures that determined the rate of taxation for the year was 25895

This figure was subsequently increased by omitted assessments of polls, namely; 100, as well as by those of "Own Requests" namely 465, making the total supplementary number of polls 565, which added to the number at time of commitment as shown above, gives a grand total of polls assessed in 1909 amounting to 26460, an increase of 1342 over that of the previous year.

VALUATION

The valuation of the City as of May 1st, 1908, was determined by the Board of Assessors August 10th, 1909, when the rate of taxation was declared, was as follows:—

Value of land.....	\$26,551,745 00	
Value of buildings.....	34,740,765 00	
Total value of real estate.....		\$61,292,510 00
Value of personal property exclusive of bank stock.....	16,900,415 00	
Value of resident shares in National Banks, located in the City of Lowell.....	722,377 18	
Total value of personal estate.....		17,622,792 18
Total City value at time of Commitment.		78,915,302 18
Val. of omitted assessments as per Sec. 85, Part 1, Chap. 490 of the Acts of the year 1909, Personal Estate (office omissions).....	36,180 00	
Value of omitted assessments, under same section (office omissions).....	3,850 00	
Value of omitted assessments as per notice from Tax Commissioner, pursuant to the provisions of Section 4, Chap. 550, Acts of the year 1908, assessed under Sect. 85, Part 1, Chap. 490, Acts of the year 1909.....	221,505 00	
Total supplementary property valuation..		261,535 00
Total valuation of the City at the close of the year 1909.....		79,176,837 18

RATE OF ASSESSMENT AND TAXES COMMITTED TO THE TAX COLLECTOR SEPT. 2d.

The rate of taxation per \$1,000.00 of valuation necessary to raise the amount of the several warrants, together with the overlay authorized by Sect. 54 Part 1, Chap. 490 of the Acts of the year 1909, was declared by the Board of Assessors to be \$19.60; of this rate 93 cents was for State, 74 cents for County and \$17.93 for the City tax; of the tax on polls, both the State and County are credited with \$25,895.00 each.

Land valuation.....	\$26,551,745 00 at \$19.60 per \$1,000	\$520,414 20
Buildings valuation	34,740,765 00 at \$19.60 per \$1,000	680,919 00
Total Real Est. Val. and Tax at time of Com...	61,292,510 00 at \$19.60 per \$1,000	1,201,333 20
Total Per. Est. Val. and Tax at time of Com...	17,622,792 18 at \$19.60 per \$1,000	345,406 72
Total Val. and Tax at time of Commitment..	78,915,302 18 at \$19.60 per \$1,000	1,546,739 92
Total No. of polls at time of Com., 25895 at \$2.00.....		51,790 00
Total City Tax for 1909 at time of Commitment.....		1,598,529 92
Non Resident Bank Tax.....		10,174 81
Grand total of the taxes for 1909, at time of Commitment....		<u>1,608,704 73</u>

Assessors' Valuation of the Real and Personal Estates and the Number of Polls in each of the Nine
Wards of the City, and the Taxes Assessed, as of May 1, 1909, at the time of Commitment
and Finally the Supplementary Polls, Valuation and Tax :

RESIDENTS

Wards	No. Polls	Valuation of Real Estate	Valuation of Personal Estate	Tax on Polls	Tax on Real Estate	Tax on Personal Estate
1	2703	\$5,962,760.00	\$955,780.00	\$5,406.00	\$116,870.10	\$18,733.29
2	3855	1,588,980.00	349,900.00	7,710.00	31,144.01	6,858.04
3	2964	6,248,755.00	1,421,705.00	5,928.00	122,475.60	27,865.42
4	2256	2,251,760.00	331,650.00	4,512.00	44,134.50	6,500.34
5	2243	1,971,330.00	212,600.00	4,486.00	38,638.07	4,166.96
6	4730	3,128,250.00	281,110.00	9,460.00	61,313.70	5,509.76
7	2332	4,811,885.00	394,220.00	4,664.00	94,312.95	7,726.72
8	2391	5,305,605.00	851,385.00	4,782.00	103,989.86	16,687.14
9	2421	9,385,230.00	2,376,115.00	4,842.00	188,950.51	46,571.84
Totals ..	25895	\$40,654,555.00	\$7,174,465.00	\$51,790.00	\$796,820.30	\$140,619.51

NON-RESIDENTS

Wards	Valuation of Real Estate	Valuation of Personal Estate	Tax on Real Estate	Tax on Personal Estate
1.....	\$2,254,860.00	\$43,450.00	\$44,195.26	\$851.62
2.....	406,450.00	2,000.00	7,966.42	39.20
3.....	393,100.00	6,500.00	7,704.76	127.40
4.....	199,650.00	19,200.00	3,913.14	376.32
5.....	191,750.00	100.00	3,758.30	1.96
6.....	322,600.00	4,500.00	6,322.96	88.20
7.....	353,125.00		6,921.25	
8.....	626,250.00	41,050.00	12,274.50	804.58
9.....	410,700.00	1,500.00	8,049.72	29.40
Totals ..	\$5,158,485.00	\$118,300.00	\$101,106.31	\$2,318.68

Assessors' Valuation of the Real and Personal Estates, (Continued)

	Valuation of Real Estate	Valuation of Personal Estate	Tax on Polls	Tax on Real Estate	Tax on Personal Estate
Corporations.....	\$15,479,470.00	\$9,607,650		\$303,397.59	\$188,309.94
Resident Bank Shares.....		\$722,377.18			\$14,158.59
Total Value and Tax at time of Commitment..	\$61,292,510.00	\$17,622,792.18	\$51,790.00	\$1,201,333.20	\$345,406.72
Add Non-res. Bank Sh. Val. and Tax.....		519,122.82			10,174.81
Grand Totals, Value and Tax at time of Com..	61,292,510.00	18,141,915.00	51,790.00	1,201,333.20	355,581.53
Add Suppl. Val. and Tax.....	3,850.00	257,685.00	1,130.00	75.46	5,050.63
Grand Totals at close of year.....	61,296,360.00	18,399,600.00	52,920.00	1,201,408.66	360,632.16

VALUATIONS OF MASSACHUSETTS CORPORATIONS AS RETURNED TO THE TAX COMMISSIONER IN 1909

Real Estate.....	\$14,026,545.00
Machinery	8,767,420.00
Total	<u>22,793,965.00</u>

NATIONAL BANKS

	No. of Shares	Valuation	Tax
Local... ..	\$7,706 89 / 660	\$722,377.18	\$14,158.59
Foreign.....	<u>5,293 571 / 660</u>	<u>519,122.82</u>	<u>10,174.81</u>
Totals	13,000	1,241,500.00	24,333.40

SUMMARY OF VALUATION AND TAX OF THE YEAR 1909, AT THE CLOSE

	No.	Valuation	Tax
Polls.....	26,460		\$52,920.00
Real Estate.....		\$61,296,360.00	1,201,408.66
Personal Estate.....		<u>17,880.477.18</u>	<u>350,457.35</u>
Total City Value and Tax at close of year.....		79,176,837.18	1,604,786.01
Non-res. Bank Val. and Tax.		<u>519,122.82</u>	<u>10,174.81</u>
Grand Totals for the year...		79,695,960.00	1,614,960.82

ASSESSED POLLS BY WARDS AND PRECINCTS

Wards	Precinct	At time of Commitment	Supplemen- tary	Grand Totals	Ward Totals
1.....	1	1246	31	1277	2760
	2	813	22	835	
	3	644	4	648	
	Totals	<u>2703</u>	<u>57</u>	<u>2760</u>	
2.....	1	1832	49	1881	4001
	2	1248	35	1283	
	3	775	62	837	
	Totals	<u>3855</u>	<u>146</u>	<u>4001</u>	
3.....	1	1129	17	1146	3006
	2	1033	16	1049	
	3	802	9	811	
	Totals	<u>2964</u>	<u>42</u>	<u>3006</u>	
4.....	1	849	29	878	2354
	2	681	35	716	
	3	726	34	760	
	Totals	<u>2256</u>	<u>98</u>	<u>2354</u>	
5.....	1	809	26	835	2322
	2	579	27	606	
	3	855	26	881	
	Totals	<u>2243</u>	<u>79</u>	<u>2322</u>	
6.....	1	2286	8	2294	4766
	2	1286	20	1306	
	3	1158	8	1166	
	Totals	<u>4730</u>	<u>36</u>	<u>4766</u>	
7.....	1	669	7	676	2375
	2	691	21	712	
	3	972	15	987	
	Totals	<u>2332</u>	<u>43</u>	<u>2375</u>	
8.....	1	705	3	708	2411
	2	791	4	795	
	3	895	13	908	
	Totals	<u>2391</u>	<u>20</u>	<u>2411</u>	
9.....	1	715	17	732	2465
	2	856	12	868	
	3	850	15	865	
	Totals	<u>2421</u>	<u>44</u>	<u>2465</u>	
Total Number of 1909 Polls.....					26,460

NUMBER OF POLLS BY WARDS, 1905 TO 1909 INCLUSIVE

At Time of Commitment

Wards	1905	1906	1907	1908	1909
1.....	2,324	2,780	2,741	2,623	2,703
2.....	3,046	3,441	3,095	2,665	3,855
3.....	2,825	2,964	2,997	2,971	2,964
4.....	2,353	2,278	2,312	2,297	2,256
5.....	2,064	2,222	2,192	2,316	2,243
5.....	2,852	4,385	4,274	4,377	4,730
7.....	4,783	2,272	2,297	2,296	2,332
8.....	2,961	2,293	2,329	2,411	2,391
9.....	2,515	2,405	2,392	2,457	2,421
Totals.....	25,723	25,040	24,629	24,413	25,895

The difference in the number of polls in wards 6 and 7 in 1905 and 1906 and subsequent years is accounted for by reason of the redistricting which went into effect in 1906.

ABATEMENT OF TAXES MADE IN THE YEAR 1909

Year	Gross Abatements	On Polls	On Property	Property Re-assessments	Net Abatements on Property	Total Net Abatement on Polls and Property
1906.....	\$ 27.44		\$ 27.44		\$ 27.44	\$ 27.44
1907.....	1,069.35	\$ 24.00	1,045.35	\$ 250.26	795.09	819.09
1908.....	15,928.94	486.00	15,442.94	10,254.12	5,188.82	5,674.82
1909.....	10,495.22	16.00	10,479.22	1,989.11	8,490.11	8,506.11
Totals ..	\$27,520.95	\$526.00	\$26,994.95	\$12,493.49	\$14,501.46	\$15,027.46

ABATEMENTS BEFORE AND AFTER PAYMENTS

Year	"BEFORE PAYMENT"			"AFTER PAYMENT"		
	Gross Abatements	Re-assessments	Net Abatements	Gross Abatements	Re-assessments	Net Abatements
1906.....	\$ 27.44		\$ 27.44			
1907.....	1,015.03	\$ 207.58	807.45	\$ 54.32	\$42.68	\$ 11.64
1908.....	15,879.78	10,209.04	5,670.74	49.16	45.08	4.08
1909.....	10,377.42	1,988.91	8,388.51	117.80	.20	117.60
Totals..	\$27,299.67	\$12,405.53	\$14,894.14	\$221.28	\$87.96	\$133.32

LIMIT OF APPROPRIATIONS

Figured in accordance with the second part of Sect. 53, Part 1, Chap. 490 of the Acts of the year 1909

Year	Total City Valuations	Net Property Tax Abatements	Rate per \$1000 of Val.	Amt. of Abate- ments in terms of Val.
1907....	\$75,454,738.21	\$6,559.02	\$19.40	\$338,093.84
1908.....	77,858,891.85	9,835.00	20.40	482,107.84
1909.....	79,176,837.18	8,490.11	19.60	433,168.88
Totals.....	232,490,467.24	24,884.13		1,253,370.56
	1,253,370.56	Net Abatements for 3 years		
	3)231,237,096.68	Net value for 3 years		
	\$77,079,032.22	Average Valuation		

Amount per \$1000. of valuation for current expenses, \$12.00

Limit of appropriations under above part of Chap. 490 for the year 1910, \$924,948.39

Again,

Limit of appropriations figured in accordance with first part of Sect. 53, part 1 of Chap. 490 of the Acts of 1909:

Total City Valuation for the year 1909.....	\$79,176,837.18
1909 Abatements in terms of Valuation.....	433,168.88
Net City Valuation for 1909.....	78,743,668.30

Amount per \$1000 of Valuation allowed for current expenses, \$12.00

Limit of Appropriation under first part of Section herein before mentioned, \$944,924.02

It is optional with the City Council which limit is regarded.

LIMIT OF MUNICIPAL DEBT

The limit of the Municipal Debt for the year 1910, under Section 3, Chapter 27, of the Revised Statutes, will be two and one-half per cent of \$77,079,032.22, which is \$1,926,975.81.

STREET WATERING ASSESSMENTS

Total amount of street watering assessments in 1909 \$18,413.13

STREET WATERING ABATEMENTS MADE IN 1909

	Gross Abate- ments	Re-assess- ments	Net Abate- ments	Before Payment	After Payment
1907.....	\$ 2.30	\$ 2.30		\$ 2.30	
1908.....	8.02	8.02		8.02	
1909.....	11.40	5.00	\$ 6.40	11.40	
Totals.....	<u>21.72</u>	<u>15.32</u>	<u>6.40</u>	<u>21.72</u>	

MOTH ASSESSMENTS

Total amount of moth assessments for the year 1909..... \$3,435.05

	Gross Abate- ments	Re-assess- ments	Net Abate- ments	Before Payment	After Payment
1907.....	\$ 3.10	\$ 1.60	\$ 1.50	\$ 3.10	
1908.....	5.95	5.95		5.95	
1909.....	24.25	15.05	9.20	20.25	\$4.00
Totals.....	<u>33.30</u>	<u>22.60</u>	<u>10.70</u>	<u>29.30</u>	<u>4.00</u>

EXCISE TAX

Special case of Excise Tax assessed in the year 1909.
 Boston & Northern Street Railway..... \$9,112.99

Number of Polls and number of Persons, Firms, Etc., paying Property Tax at time of Commitment

Ward	Total Polls	Paying Poll Tax only	Poll and Prop. Tax	Residents on Property Individuals	Resident Firms, Trustees, all others on Property	Non-Residents on Property Individuals	Non-Res. Firms, Trustees, all others on Property	Total Number of persons Assessed on Property
1.....	2,703	2,283	420	825	334	81	30	1,270
2.....	3,855	3,656	199	310	192	29	7	538
3.....	2,964	2,391	573	1,038	228	69	19	1,354
4.....	2,256	2,028	228	469	160	19	7	655
5.....	2,243	2,048	195	395	172	18	6	591
6.....	4,730	4,286	444	760	208	60	6	1,034
7.....	2,332	1,744	588	984	213	94	25	1,316
8.....	2,391	1,681	710	1,374	253	161	21	1,809
9.....	2,421	1,770	651	1,138	313	136	17	1,604
Totals	25,895	21,887	4008	7,293	2,073	667	138	10,171

Number of Polls and number of Persons, Firms, Etc., paying Property Tax at time of commitment
(Continued)

	Residents on Property Individuals	Resident Firms, Trustees, all others on Property	Non-residents on Property Individuals	Non-Res. Firms Trustees, all others on Property	Total Number of Persons Assessed on Property
Total Ind. Firms. Etc. Paying Property Tax.....	7,293	2,073	667	138	10,171
Number of Corporations.....		159			159
Number of National Banks.....		5			5
Grand Total of Property Tax Payers.....	7,293	2,237	667	138	10,335

EXEMPTED PROPERTY

Under this head are embraced Literary, Temperance, Benevolent and Charitable Institutions and Houses of Religious Worship.

Personal Estate Valuation.....		\$833,171.45
Buildings Valuation.....	\$2,746,550.00	
Land Valuation.....	1,086,095.00	
Total Real Estate Valuation.....	3,832,645.00	3,832,645.00
Total Valuation of Exempted Property as above.....		4,665,816.45

CLASSIFICATION OF EXEMPTED PROPERTY

	Personal Estate	Real Estate	Totals
Literary Institutions.....	\$131,108.09	\$933,295.09	\$1,064,403.09
Temperance Institutions....	3,000.00		3,000.00
Benevolent Institutions.....		80,850.00	80,850.00
Charitable Institutions.....	699,063.36	499,800.00	1,198,863.36
Houses of Religious Worship		2,318,700.00	2,318,700.00
Totals.....	833,171.45	3,832,645.00	4,665,816.45

The total Real Estate area exempt, 114,726 acres.

**COMPARATIVE TABLE OF EXPENDITURES OF THE
DEPARTMENT FOR THE YEARS
1905 TO 1909 INCLUSIVE**

	Salary Acct.	Material, Supplies, Etc.	Total
1905.....	\$12,080.37	\$2,061.84	14,142.21
1906.....	12,138.25	1,680.91	13,819.16
1907.....	12,019.50	904.55	12,924.05
1908.....	12,132.75	1,402.52	13,595.27
1909.....	12,003.00	884.75	12,887.75

Pertaining to the matter of appropriations for materials, supplies, etc., we are obliged by law to provide for the publishing of a list of Polls, the cost of which varies each year.

The following Table indicates the Cost of the list of Polls since 1897 :

	Number of Pages	Cost per Page	Total Cost
1897.....	1068	\$.55	\$587.40
1898.....	1024	.54	552.96
1899.....	1032	.55	567.60
1900.....	1018	1.20	1,221.60
1901	1045	1.20	1,254.00
1902.....	1065	1.20	1,278.00
1903.....	1164	.99	1,152.36
1904.....	1269	.65	824.85
1905.....	1303	.80	1,042.40
1906... ..	1340	.60	804.00
1907.....	1024	.58	593.92
1908.....	932	.57	531.24
1909.....	975	.55	536.25

TAX LIST EXPENDITURE IN 1909

Paper for Copy.....	\$9.00
Clerical Service.....	278.75
Printing, Binding, etc.....	1,350.00
Total Expenditure.....	<u>1,637.75</u>

The first Saturday of each month at 10 o'clock A. M., is the date set by the Assessors for their monthly meeting, and every Saturday from October 1st, to March 1st, the Board will give hearings to those parties having grievances on account of assessments.

Respectfully submitted,

ABEL WHEELER,
C. ARTHUR ABBOTT,
ALBERT J. BLAZON,

Board of Assessors of the City of Lowell.

LIST OF JURORS

A

Abbott, Francis A. 896 Middlesex st, carpenter
Abbott, James M. 24 Fairmount st, broker
Abbott, John W. 12 Fremont st, tinsmith
Abell, Orrin W. 20 Osgood st, printer
Abels, Alexander M. 43 Nicollet st, merchant
Achin, Henry Jr., 384 Fletcher st, insurance agent
Adams, Asbury F. 36 Third st, meat market
Adams, Charles F. 640 Bridge st, asst. paymaster
Adams, George F. 105 Gates st, overseer
Adams, John M. 511 School st, painter
Adams, Walter S. 13 Read st, machinist
Adie, John P. 26 So. Whipple st, printer
Aldrich, William K. 24 Leroy st, manufacturer
Alexander, Jesse 197 White st, clerk
Alexander, J. Walter 774 Moody st, clerk
Allard, Albert 39 Fourth ave, lunch cart
Allard, Joseph J. 114 Ennell st, storekeeper
Allard, Simon 67 Varney st, shoe cutter
Allen, Charles O. 79 Warwick st, receiving teller
Allen, Walter M. N. 39 Elliott st, machinist
Alley, Andrew J. 12 Barclay st. pattenmaker
Amadon, Fred C. 760 Stevens st, clerk
Anderson, August 23 Lundberg st, operative
Anderson, John W. 233 Stevens st, bookkeeper
Andrews, John A. rear 11 So. Whipple st, leatherworker
Angluin, David H. 123 Agawam st, steamfitter
Appleton, Francis E. 59 Pine st, paymaster
Archambault, Amedee 742 Merrimack st, undertaker
Arnold, William A. 401 Beacon st, bookkeeper
Ashton, John T. 60 Orleans st, secondhand
Ashworth, George L. 110 Westford st, clerk
Aspin, James T. 1107 Lawrence st, weaver
Atherton, Charles S. 12 Cheney place, clerk
Atwood, William P. 17 Nineteenth st, chemist
Austin, Fred A. 86 Branch st, shoemaker

B

Bagshaw, Arthur E. 11 Wilson st, mechanic
Bagshaw, Charles H. Wedge cor. Lura st, manufacturer
Bailey, Frank E. 33 Canton st, wholesale beef
Baldwin, Francis G. 374 Beacon st, dealer
Barnard, Virgil G. 68 Harvard st, treasurer
Barnes, Henry W. 30 Huntington st, tailor
Baron, Charles C. 88 Eleventh st, public accountant
Barrett, Andrew E. 77 Mt. Vernon st, grocer
Barrett, Edward J. 94 School st, grocer
Barris, William J. 63 Jenness st, mill overseer
Barry, Patrick H. 294 Wentworth ave, liquor dealer
Bartlett, Arthur 370 Beacon st, civil engineer
Bartlett, Joseph O. 37 Hastings st, operative
Bassett, Cyrus R. 90 Andrews st, farmer
Bachelder, Mark O. 650 Stevens st, overseer
Bateman, John F. 39 Robbins st, surveyor
Beals, Horace P. 84 Marlborough st, lumber business
Beals, Laforest 154 Eleventh st, coal and cement
Bean, Daniel F. 15 Eighth ave, shoe manufacturer
Bean, Frank S. 26 Eleventh st, produce
Bean, Howard C. 15 Eighth ave, director
Bean, Ralph M. 15 Eighth ave, secretary
Beane, George L. 181 Mt. Vernon st, laborer
Beane, Thomas J. 104 Pleasant st, life insurance
Beaulieu, John H. 202 Hildreth st, storekeeper
Beaumier, Joseph 11 Second st, clerk
Beauregard, Oliver J. 22 Wiggin st, grocer
Beck, Edmund 224 Hale st, mason
Belanger, Charles A. 36 Aiken ave, printer
Bell, Frank A. 17 Wachusett st, machinist
Bellefontaine, Miller 130 Riverside st, furniture dealer
Bennett, George A. 51 Marshall st, foreman
Bergeron, Albert rear 502 Moody st, master baker
Bernard, Ernest A. 476 Moody st, barber
Bertrand, Arthur M. 22 Middle st, merchant tailor
Bibeault, Alfred 2-88 Ford st, carpenter
Biggs, John 576 School st, carpenter
Billingsley, Fred 178 Concord st, liquor dealer
Bishop, Herbert L. 28 May st, paymaster
Bissell, William E. K. 47 Methuen st, clerk
Bissonnette, Frank H. 56 Third ave, clerk
Bissonnette, John 47 Mt. Washington st, painter
Bissonnette, Joseph M. 41 Aiken ave, meat cutter
Bissonnette, Zephyrin J. 60 Third ave, telegrapher
Bixby, Albert J. 271 Gibson st, machinist
Bixby, Newton 32 Beach st, slasher
Blake, William J. 17 Shedd st, clerk
Blessington, John B. 53 Second ave, foreman

Blodgett, Emery F. 585 Chelmsford st, bookkeeper
Bond, Edward E. 1 Manahan st, overseer
Booth, Walter 113 School st, fruit dealer
Boisvert, Jacques 363 Hildreth st, builder
Bosworth, George A. 256 School st, gardener
Boucher, Thomas E. 65 Hampshire st, clerk
Boudreau, Henri 746 Lakeview ave, clothing store
Boudreau, John B. 24 Crawford st, grocer
Boulais, Arthur N. 8 Dracut st, grocer's clerk
Bourdon, Michael 94 Ford st, carpenter
Bourque, Philip R. 402 Moody st, carpenter
Bourret, Charles C. 32 Campaw st, master plumber
Bowers, Duncan V. rear 445 Lawrence st, grocery store
Box, John W. 7 Lyon st, belt maker
Boyle, James H. 110 Congress st, conductor
Boyle, John L. rear 110 Congress st. machinist
Boyle, Thomas H. 715 Bridge st, liquor dealer
Bradley, Albert rear 1017 Central st, pool room
Bradley, Ramond D. 62 Rock st, teamster
Bradt, David H. 125 Mt. Vernon st, prop. bakery
Bradt, Gerritt J. 75 Bowers st, prop. bakery
Brady, Peter J. 247 Gorham st, merchant
Brady, Thomas 198 Mammoth road, manager
Brassill, Dennis 58 Walnut st, operative
Breen, John P. 9 Lyon st, loomfixer
Brennan, Owen E. 20 Crowley st, hardware dealer
Brennan, Frank M. 150 Agawam st, brakeman
Brigham, Charles R. 70 Queen st, clerk
Brimigion, Caleb L. 67 South Whipple st, operative
Brissette, Rupert N. 258 Chelmsford st, clerk
Brock, Greenleaf C. 118 First st, druggist
Brogan, Frank M. 74 Bowers st, insurance
Brogan, Joseph 80 Mt. Washington st, machinist
Brooks, James S. 261 Mammoth road, grocer
Brosnahan, Patrick H. 796 Lawrence st, liquor dealer
Brothers, George W. 62 Royal st, treasurer Gas Co.
Brown, Charles W. 10 Walden st, asst. paymaster
Brown, Milon D. 295 Central st, cigar dealer
Brown, Benjamin G. 182 Westford st, truckman
Bruce, Clinton L. 41 Bowers st, manufacturer plasters & medicine
Brun, Arthur 15 Circuit ave, operative
Bryant, Fred A. 62 Pine st, musician
Buckley, George 190 High st, gas fitter
Buckley, John 305 Summer st, bookkeeper
Buckland, Elmer E. 480 Westford st, printer
Burbank, John E. 29 Anne st, merchant
Burgess, Edwin 120 Billerica st, plumber
Burke, Edward N. 216 Nesmith st, retired
Burke, William H. 14 Warnock st, operative
Burkinshaw, Joseph 18 Bellevue st, druggist

Burnham, Fred N. 42 Hastings st, clerk
 Burns, George E. 61 Eighteenth st, clerk
 Burns, James E. 23 State st, laborer
 Burns, Edward 84 Pleasant st, wool sorter
 Burns, James F. Jr. 427 Lakeview ave, machinist
 Burns, John J. 607 Westford st, dry goods merchant
 Burrill, John F. 612 Beacon st, clerk
 Burt, Walter N. 385 Walker st, clerk
 Butman, Josiah M. 1 Coral st, retired
 Butterworth, Samuel D. 153 Moore st, inspector
 Byam, Arnold A. 416 Wilder st, real estate
 Byam, Otis 79 Canton st, milk dealer
 Byrne, Patrick J. 571 East Merrimack st, coachman

C

Caddell, Andrew M. 115 Fowler road, weaver
 Caddell, James 115 Fowler road, plumber
 Cadorette, Albert 619 Lakeview ave, carpenter
 Cadorette, Joseph 619 Lakeview ave, mason
 Cady, George L. Jr. 150 Mt. Vernon st, box maker
 Caisse, Wilfred Jr. 773 Merrimack st, druggist
 Callahan, George T. 229 Christian st, advertiser
 Callahan, Philip H. 82 Beacon st, painter
 Callery, Bartholemew Bourne st, City
 Camire, Evariste A. 737 Moody st, storekeeper
 Campbell, Abel R. 28 Bellevue st, real estate
 Campbell, Frank J. 104 Westford st, druggist
 Campbell, George, 10 West 5th st, grocery clerk
 Cannon, Michael F. 220 Thorndike st, printer
 Carmichael, James H. 165 Fort Hill ave, overseer
 Caron, Albert J. 4 Robert st, clerk
 Caron, Horace E. 23 King st, telegrapher
 Caron, Joseph 404 Fletcher st, operative
 Carpenter, Henry, 27 Ellis ct, shipping clerk
 Carpenter, W. Irving 32 Fay st, fish dealer
 Carpentier, Henry, 67 West Meadow road, shoecutter
 Carr, Harold R. 301 Pawtucket st, clerk
 Carr, Walter W. 9 Rhodora st, asst supt. M. P. W.
 Carrier, Joseph, 2 Dracut st, clerk
 Carrigg, John J. 39 Third st, stage manager
 Carroll, Daniel F. 118 South Highland st, master plumber
 Casey, George W. 45 Willow st, real estate
 Casey, Thomas P. 87 Moore st, foreman
 Casey, James B. 214 Thorndike st, manufacturer
 Cassidy, James W. 4 Fifth ave, retired
 Cassidy, John J. 263 Thorndike st, machinist
 Cassily, Edward C. 14 Livermore st, shaver
 Catherwood, Robert 58 Epping st, milkman
 Cawley, Edward 85 Rogers st, coal dealer

Cawley, William F. 85 Rogers st, clerk
Chambers, John H. 942 Central st, teamster
Charlton, Richard 538 Westford st, clerk
Charron, Edmond J. 28 Howard st, machinist
Chase, Frederick A. 19 Nesmith st, librarian
Chase, Howard 237 Foster st, machinist
Chase, Walter I. 353 Walker st, clerk
Cheney, James E. 8 Bagley ave, pattern maker
Cheney, Edmund J. 116 Grove st, barber
Cheney, George H. 55 Chase ave, watchman
Chevalier, Edward 33 Fifth ave, grocer
Childs, Edward L. 82 Warwick st, overseer
Choate, Albert H. 509 Beacon st, drug clerk
Chouinard, Zenon 87 Pawtucket st, dry goods
Choquette, Jeremie A. 89 Butterfield st, clerk
Choquette, Joseph 772 Moody st, clerk
Christman, Eustache 6 Rumford st, grocer
Clancy, John 198 Riverside st, dealer
Clark, Daniel 16 Fifth ave, carder
Clark, James 1-62 Congress st, stone cutter
Clark, Marion S. 203 Gibson St. clerk
Clark, T. Frank 103 Pleasant st, clerk
Cleary, Daniel 47 Swift st, master plasterer
Clement, Charles M. 295 Foster st, carpenter
Cleworth, Walter W. 85 Royal st, teller
Clifford, Charles T. 99 Westford st, dentist
Clifford, Robert H. 848 Bridge st. census clerk
Clough, Henry H. 280 Varnum ave, none
Cluin, John J. 130 Fort Hill ave, jeweler and optician
Clune, Peter A. 53 Thirteenth st, solicitor
Coburn, Clarence G. 735 Varnum ave, retired
Coburn, Harry W. 214 Third st, dentist
Coburn, Joseph V. B. 215 Mammoth road, grocer
Coburn, Laurens W. 48 Varney st, clerk
Coburn, Walter S. 28 Mt. Washington st, manufacturer
Cochran, Robert 58 Hanks st, dyer
Coffey, Timothy J. 21 Marginal st, grocer,
Cogger, John H. 80 White st, printer
Cogger, William 82 Park View ave, advertising
Coggeshall, Fred H. 38 Nichols st, clerk
Colburn, John H. 39 West Ninth st, retired
Cole, John W. 14 Fairfield st, restaurant
Coleman, Joseph H. 65 Fulton st, painter
Collins, Cornelius A. 124 Dummer st, painter
Collins, Cornelius E. 394 High st, real estate and insurance
Collins, J. Henry 27 Princeton st, electric supplies
Commerford, Edward J. 16 Wiggin st, bartender
Conant, Arthur J. 237 East Merrimack st, grocer
Conant, Charles H. jr. 19 Nesmith st, bank clerk
Conant, George W. 27 Burt st, machinist

Conant, Herbert J. 16 Grove st, clerk, B. & M. R. R.
Condon, John H. 96 Midland st, janitor
Conley, Leander F. 69 Tolman ave, overseer
Connolly, John F. 108 Agawam st, woolsorter
Connolly, Michael H. 84 School st, insurance agent
Conroy, Robert F. 153 Appleton st, manager
Conway, Anthony A. 11 Marlborough st, dealer
Cooke, Charles E. 182 Smith st, elevator operator
Cooney, Dennis J. 55 Elm st, liquor dealer
Cope, Edwin 342 Pawtucket st, retired
Copeland, Charles S. 73 South Loring st, real estate
Corbett, John H. 14 Burns st, provision dealer
Corcoran, Joseph F. 40 Fort Hill ave, printer
Corliss, Ammi L. 9 Methuen st, sexton
Corwin, Harry J. 25 Huntington st, advertising manager
Cossette, Majorique J. 294 Riverside st, clerk
Cossette, P. Napoleon, 9 Common ave, real estate
Costello, Robert E. 479 School st, driver
Cote, Lewis 98 Aiken ave, clerk
Cottrell, Thomas S. 44 Crowley st, weaver
Cottrell, William H. 112 D st, printer
Coughlin, Jeremiah 359 Concord st, gardener
Couzoules, George 509 Market st, vice-consul and steamship agent
Cover, Frank G. 30 West Bowers st, dealer
Cover, John B. 16 Lombard st, dealer
Cox, Frederick 183 Richards st, city employee
Cox, James H. 117 Crawford st, water department
Cox, Terrence J. 239 Stackpole st, barber
Craig, Joseph 73 Congress st, foreman of switch tower
Croft, William J. 380 Woburn st, dealer
Croft, William J. jr. 380 Woburn st, clerk
Crosby, Burton H. 111 Moore st, mason
Crosby, Frederick H. 111 Moore st, plasterer
Cross, Winfield 33 Seventh st, janitor
Crowley, Dennis J. 112 Walker st, water dept
Crowley, John A. 3 Fulton ave, student
Crowley, Patrick H. 226 Fletcher st, laborer
Crowley, Robert E. 115 Fort Hill ave, real estate
Crowley, Robert E., jr. 115 Fort Hill ave, real estate
Crowley, William L. 453 Riverside st, clerk
Crysler, H. Stanley 258 Gibson st, manager
Cuff, John H. 18 Agawam st, moulder
Cuff, Thomas F. 18 Agawam st, dentist
Cull, John H. 84 Chapel st, printer
Cummings, George W. 124 Dunbar ave, real estate
Cummings, Marshall F. 20 Chelmsford st, clerk
Cunningham, Clarence 37 Durant st, steward
Cunningham, Fred W. 27 Fay st, shuttlemaker
Curran, John 5 Ardell st, inspector
Curry, James 105 Tremont st, steam fitter

Curtin, Richard J. 514 East Merrimack st, barber
 Cushing Edward T. 20 Chelmsford st, hotel
 Cushing, Joseph L. 32 Mt. Washington st, manufacturer
 Cushing, Michael W. 94 Bridge st, clerk
 Custy, Patrick J. 96 Mt. Washington st, merchant
 Cutler, John S. 840 Varnum ave, barber
 Cutting, Lawrence F. 78 Methuen st, clerk

D

Daigle, Henri 17 Endicott st, operative
 Daigneault, Oscar J. 201 Middlesex st, barber
 Daily, Thomas 16 Watson st, operative
 Daley, Peter 203 Broadway, laborer
 Dallaire, Pierre V. 20 Gershom ave, barber
 Dalton, John J. 55 Nesmith st, clerk
 Daly, Frank W. S. 102 Jenness st, clerk
 Daly, Jeremiah A. 211 Fletcher st, insurance agent
 Daly, John J. 19 North st, operative
 Daly, John W., 76 Andrews st, clerk
 Daly, William F. 20 Walden st, insurance agent
 Damon, William W., 433 Dutton st, machinist
 Dana, Harry C. 365 Worthen st, machinist
 Danahy, John J. 22 Crowley st, tinsmith
 Dane, George F., 53 Oakland st, foreman B. & M. R. R.
 Davey, Peter 83 Bartlett st, undertaker
 David, Albert W. 234 Gibson st, clerk
 David, Olier 225 Ludlam st, insurance agent
 Davidson, William T. 187 Mammoth road, granite cutter
 Davis, Prentice T. 35 Boynton st, overseer
 Day, James E. 19 Crosby st, agent
 D'Avignon, Charles J. 763 Merrimack st, stonecutter
 Dean, Eugene F. 203 Salem st, clerk
 Dean, Sam 65 Queen st, overseer
 Dean, Simon 1240 Gorham st, butcher
 Dearborn, George W. 55 Marlborough st, superintendent
 Dearborn, Lafayette A. 12 Totman st, engineer
 Decker, Lambertus H. jr. 4 Ready's ave, brakeman
 Delaronde, Charles A. 128 Lilley ave, clerk
 Delisle, Francois X. 784 Merrimack st, clerk
 Deloria, Alexander E. 458 Fletcher st, operative
 Denault, Pierre L. 41 Jewett st, real estate
 Dennis, Edward P. 50 Chelmsford st, retired
 Derby, Lucius A. 148 First st, electrician
 Descheneaux, Omer 767 Moody st, carpenter
 Descheneaux, Radrick 767 Moody st, carpenter
 Desilets, Horace 14 Spaulding st, clerk
 Deslandes, Ambrose 65 Branch st, barber
 Desmarais, Philip 56 Claire st, clerk
 Desmond, Daniel A. 19 Wright st, dealer

Desrosiers, Joseph A. 210 Hildreth st, clothing dealer
Devine, Patrick F. 67 Park View ave, manufacturer
Devlin, James P. 43 Willow st, printer
Dextra, Joseph 518 Merrimack st, barber
Dickerman, William O. 64 Bellevue st, clerk
Dickey, Thomas L. 66 Porter terrace, insurance
Dickson, Charles E. 198 Methuen st, clerk
Dickson, David 142 Smith st, tea merchant
Dickson, William 39 Roper st. insurance
Dillon, John F. 125 Andrews st, teamster
Dillon, David 70 Royal st, machinist
Dilworth, Dennis 95 Agawam st, overseer
Dobson, Frank W. 148 Andover st, clerk
Doherty, Joseph B. 114 Agawam st, currier
Doherty, Henry P. 78 Bridge st, master painter
Donahoe, Cornelius F. 92 Andrews st, clerk
Donais, Venant 540 Moody st, clerk
Donnelly, James E. 36 Floyd st, blacksmith
Donnelly, John F. 7 Newhall st, grocer
Donnelly, John P. 36 Floyd st, blacksmith
Donohoe, James H. 656 Gorham st, clerk
Donohoe, Andrew 49 Keene st, liquor dealer
Donohoe, Charles T. 41 Chapel st, clerk
Donohue, John J. 656 Gorham st, clerk
Donohue, Michael J. 3 Brooks st, salesman
Donohue, Thomas M. 283 Gorham st, motorman
Donovan, Daniel J. 139 Cross st, provisions
Donovan, Francis D. 136 Cross st, clerk
Donovan, James C. 176 Branch st, dealer
Donovan, William H. 26 Madison st, dealer
Doole, George Lee, 14 Staveley st, operative
Doran, Daniel 17 Crane ave, assistant superintendent
Dow, Frank B. 374 High st, hardware dealer
Dow, Fred H. 56 Cornell st, foreman
Dow, George L. 151 B st, drug clerk
Downs, Earl C. 14 Porter st, electrician
Doyle, George J. 4 Runels place, barber
Doyle, Stephen H. 23 Phillips st, barber
Dozois, George H. 179 School st, machinist
Dozois, Hilaire 179 School st, machinist
Drewett, Frank 215 Moore st, clerk
Drewett, Sidney, 139 Hildreth st, sexton
Drinan, George 17 Burlington ave, machinist
Driscoll, Patrick H. 180 Baldwin st, school janitor
Drouin, Arthur J. 2-768 Lakeview ave, drug clerk
Drury, Harry S. 44 Hanks st, plumber
Dubuque, George H. 22 East Pine st, clerk
Duckworth, Thomas 150 Fort Hill ave, salesman
Duff, John J. 19 Burns st, wine clerk
Duffy, Michael A. 25 Dutton st, bottler

Dumas, Ernest G. 55 Huntington st, manufacturing stationer
Duncklee, Fred W. 28 Bowden st, foreman
Dunfey, James T. 63 Sixth ave, auditor's clerk
Durstoff, Charles C. 102 South Whipple st, overseer
Dwyer, John 12 Oak st, painter

E

Eames, Melvin, 32 West Sixth st, secondhand
Earley, Bartholomew F. 372 High st, physician
Eastman, Henry F. 327 Rogers st, mechanical engineer
Eastman, Raymond W. 18 May st, carpenter
Eaton, Charles W. 108 Myrtle st, banker and broker
Ekengren, Karl, 48 State st, wool sorter
Ekengren, Per William, 28 State st, electrician
Elliott, Robert H. 319 Stevens st, real estate
Emmott, Walter H. Westfort st, cor. Chester, manager
Emsley, George 20 Weed st, combmaker
Enright Cornelius F. 295 Thorndike st, master painter
Erdis, Hugh W. 240 Liberty st, merchant
Erskine, Charles M. 138 Mt. Vernon st, real estate
Estabrook, Howard M. 22 Seventh ave, meat cutter
Evans, Frederick 9 Blossom st, marble worker
Evans, George C. 239 Liberty st, manager

F

Fairbanks, William M. 31 Hoyt ave, J. C. Ayer Co.
Fairburn, George 384 High st, provision dealer
Fall, George F. 694 Varum ave, teamster
Farley, Harry P. 39 Carter st, bottler
Farnham, Frederick W. 60 Marlborough st, civil engineer
Farrell, Edward F. 12 Third ave, plumber
Farrell, John M. 2 West View st, auctioneer
Farrington, John C. 182 Perry st, clerk
Farrington, Willis 234 Nesmith st, gentleman
Faulkner, John A. 52 Mansur st, manufacturer
Favreault, William A. 18 Orford st, clerk
Fay, Edgar G. 122 Branch st, plumber
Fay, Frederick T. 371 East Merrimack st, druggist
Fay, George D. 303 Tenth st, bank clerk
Fay, Henry J. 70 Lawrence st, retired
Fecteau, Alexis F. 742 Merrimack st, clerk
Fennell, Nicholas J. 970 Gorham st, barber
Ferrin, George W. jr. 41 Grove st, salesman
Fife, James 46 Merrill st, machinist
Filion, George H. 348 Hildreth st, jeweler
Filion, J. Anaclet 348 Hildreth st, jeweler
Filteau, Joseph C. 22 Butterfield st, cologne maker
Finnerty, Patrick J. 32 Lawrence st, iron smelter

Finnegan, John A. 179 E. Merrimack st, undertaker
Firth, Rylah 57 Midland st, paymaster
Fitzgerald, Patrick 169 Broadway, bartender
Fitzgibbon, Patrick 237 Gorham st, shoe dealer
Flanagan, Edward M. 22 Westford st, checker
Flanagan, James J. 186 Pleasant st, clerk
Flather, Frederick A. 68 Mansur st, treasurer
Fleming, James H. 23-24 Webster st, laborer
Fleming, Samuel 35 Methuen st, boot maker
Fletcher, Edwin L. 81 Holyrood ave, grocer
Flood, James H. 118 Bartlett st, grocer
Flood, Terrence E. 9 Ardell st, carpet weaver
Flynn, Simon 205 Cross st, water department
Foisey, Joseph A. 327 Hildreth st, baker
Folsom, Fred P. 154 Shaw st, clerk
Folsom, Henry W. 998 Middlesex st, overseer
Forbes, William J. 1 Brickett ave, clerk
Forrest, C. Marshall 30 Sanders ave, lumber dealer
Fortin, Antoine 903 Moody st, clerk
Foster, Benj. F. 24 Hastings st, second hand
Foster, Fred A. 98 Grove st, overseer
Fox, Russell 359 Beacon st, insurance
Foye, Edward H. 127 Durant st, merchant
Foye, John J. 23 Burlington ave, gas fitter
Fraser, Allan, 13 McKinley ave, merchant
Fraser, James A. 50 Kirk st, engraver
Frawley, David F. 87 Boynton st, glazier
Frechette, Wilfrid 447 Moody st, overseer
French, Albert F. 213 Park View ave, manufacturer
French Arthur J. 35 Victoria st, paper cutter
Frye, Austin A. 105 Eighteenth st, druggist
Frye, George H. 36 Second st, brick mason
Fuller, George B. 1524 Gorham st, lumber man
Fulton, Robert S. 27 Myrtle st, clerk

G

Gagnon, Arthur J. 466 Merrimack st, dentist
Gagnon, George 37 Gardner ave, clerk
Gagnon, Joseph A. 37 Gardner ave, buyer
Gagnon, Louis 172 Riverside st, clerk
Gale, Charles A. 23 Jenness st, manager
Gallagher, Charles A. 31 Sarah ave, conductor
Gallagher, Charles J. 110 Pleasant st, druggist
Gallagher, Edward 300 Wilder st, hotel
Gallagher, James J. 168 Cumberland road, cigar store
Gallagher, Peter rear 83 Lakeview ave, barber
Gallagher, Thomas J. 15 Jewett st, watchman
Gallagher, William H. 180 Ennell st, clerk City Hall

Gamache, Emile 1210 Gorham st, grocer
Garland, Arthur W. 27 So. Loring st, railroad clerk
Garmon, Joseph A. 76 Nineteenth st, foreman
Garrahan, George W. 61 Walnut st, barber
Garvey, Michael J. 203 Broadway, bartender
Garvey, Thomas F. 66 Lilley ave, cigar maker
Gates, Royal W. 75 Gates st. belting mfg.
Gaudette, George 66 Dalton st, baker
Gaudette, Octave 44 So. Loring st, wholesale confectioner
Gelinias, Victor 15-129 Aiken st, grocer
Gendreau, Fabyan, Circuit ave, tannery
Gendreau, George 42 Denton st, tannery
Gendreau, John B. 25 Bolton st, tannery
Gendreau, Joseph 42 Denton st, shoe worker
Genereux, Hildege 717 Moody st, clerk
Genest, Arthur 111 Gershom ave, contractor
Gerow, David 162 Chelmsford st, butcher and grocer
Gerry, Edgar A. 27 Humphrey st, messenger
Gibson, J. Edward 85 Eleventh st, clerk
Gibson, Thomas 27 Cady st, secondhand
Gilbert, Arthur D. 173 Foster st, bookkeeper
Gilbert, Franz S. 50 Laurel st, overseer
Gill, Edmund J. 768 Merrimack st, state house, Boston
Gill, Homer J. 768 Merrimack st, clerk
Gillespie, John T. 110 Durant st, clerk
Gilligan, James 392 Concord st, currier
Gillogley, Owen 27 Walnut st, machinist
Gillon, Hugh F. 84 Bartlett st, newspaperman
Gilman, Albert I. 20 East Pine st, foreman
Gilman, George S. 1263 Middlesex st, machine business
Gilmore, Elbert J. 145 Beacon st, superintendent
Gilmore, William J. 89 Middlesex st, second hand
Ginty, Philip 1007 Central st, master slater
Golden Thomas A. 17 Riverside ave, carpenter
Goodall, Samuel 7 Houghton st, watchman
Goodwin, Chester S. 880 Gorham st, shipper
Gookin, James 300 Concord st, furniture business
Gookin, John J. 55 Fay st, manager
Gookin, Michael F. 485 Andover st, furniture dealer
Gordon, George W. 17 Loring st, laborer
Gordon, John G. 17 Loring st, foreman
Gorman, James E. 412 Gorham st, shoe dealer
Gormley, Edward F. 31 Washington st, foreman
Gormley, Joseph H. 11 Lyon st, insurance agent
Gosselin, Phillippe 51 Mammoth road, boiler maker
Gouin, Lorenzo A. 120 Gershom ave, printer
Goulding, William H. 123 Walker st, retired slater
Grady, John J. 10 Sawtelle place, laborer
Grady, William S. 151 Rogers st, liquor dealer
Graham, Charles F. 25 Waugh st, electrician

Grandchamp, Napoleon C. 12 Arthur ave, clerk
 Grant, Alfred T. 99 Mt. Washington st, painter
 Gray, Arthur L. 71 Dover st, real estate and insurance
 Gray, Finley M. 84 Billerica st, operative
 Gray, Harry 93 Dover st, provision dealer
 Gray, James H. 23 Ellsworth st, lather
 Gray, John J. 236 Plain st, real estate agent
 Gray, Michael J. 10 Kinsman st, clerk
 Green, Albert H. 157 Dartmouth st, selling agent
 Greene, Harvey B. 73 Marlborough st, florist
 Greenwood, Othello O. 180 Hale st, grocer
 Gregg, John 112 Jackson st, overseer
 Griffin, Warren T. 113 So. Walker st, merchant
 Grover, Charles F. 80 Sherman st, division supt. tel. co.
 Grover, Herbert E. 128 Third st, barber
 Groves, Frank A. 53 Thirteenth st, bank teller
 Guild, Albert S. 26 Arlington st, banker and broker
 Guimond, Adelard 80 D st, brakeman
 Guimond, Albert F. 823 Moody st, knitter
 Guimond, Amedee 101 Aiken ave, knitter
 Gumb, Harry M. 14 Bowden st, granite dealer
 Guyton, Patrick H. 159 Mammoth road, salesman

H

Haines Olin M. 18 Upham st, machinist
 Hale Milo W. jr. 9 Glidden ave, clerk
 Haloy, Michael State st, mason
 Hall, Thalles P. 149 Stackpole st, park commissioner
 Halloran, Daniel C. 546 East Merrimack st, gardener
 Halloran, David H. 167 Pleasant st, liquor dealer
 Halstead, Charles W. 47 Methuen st, elec. lt. station
 Hamel Alfred, 144 Pawtucket st, baggage master
 Hamell, James 641 Market st, laborer
 Hamilton, Thomas H. 6 Brown's ct, plumber
 Hamlin, Charles E. 90 Fourth ave, electroplater
 Hanchett, Frank, 89 Harvard st, dealer
 Hansbury, James W. 29 Hastings st, machinist
 Hanson, James S. 584 Westford st, horse dealer
 Harmon, Almon 21 Shedd st, clerk
 Harnois, Alfred 472 Moody st, agent
 Harrigan, William H. 38 So. Walker st, collector
 Harrington, George H. 258 Merrimack st, agent
 Harrison, Harry 19 B st, machinist
 Harrison, Fred 694 School st, overseer
 Hart, Daniel J. 52 Colonial ave, master baker
 Hartnet, John J. 1034 Gorham st, operative
 Hartwell, Charles C. 109 Fourth ave, clerk
 Harvey, Joseph 843 Moody st, master plumber
 Haviland, John J. 932 Lakeview ave, weaver

Hawes, William H. 59 Canton st, broker
Hayes, William A. 10 Waterford st, conductor
Haynes, John S. 1330 Gorham st, florist
Haynes, Frank H. 430 Wilder st, wire manufacturer and banker
Hayward Charles S. 16 Corson st, secondhand
Hearn, James 50 Corbett st, watchman
Hearn, James 75 Bowers st, reporter
Hebert, Samuel P. 23 Adams st, grocer
Hemman, Richard C. 245 Stevens st, cashier
Hennessy, Joseph 46 Common st, machinist
Henry, James T. 51 Tenth st, clerk
Hersey, Freeman S. 137 Forrest st, machinist
Hersome, Albia W. 49 Andover st, stationary engineer
Hetu. Hermidas 12 Dane st, second hand
Hickey, Cornelius L. 1012 Central st, electrical worker
Higgins, John J. 135 Andrews st, undertaker
Higgins, Patrick 17 Walnut st, machinist
Higgins, Wesley R. 82 Read st, painter
Hill, James 37 Whipple st, motorman
Hill, Matthew G. 87 Stratham st, shoe sorter
Hilliard, Asa B. 59 Royal st, foreman
Hinckley, William E. 6 Simpson place, electrician
Hird, David 12 Blodgett st, wool sorter
Hoar, Martin J. 35 Bowden st, folder
Hoar, Patrick J. 16 Chase st, barber
Hobson, Charles H. 164 Holyrood ave, president and treasurer
Hodgson, William H. 1195 Lawrence st, upholsterer
Hogan, Daniel E. 30 Fort Hill ave, real estate and insurance
Hogan, William P. 82 Varney st, chauffeur
Hoisington, Charles F. 68 Thirteenth st, stove dealer
Holgate, Benjamin 28 Grove st, accountant
Hollingsworth, Joseph K. 130 Jewett st, receiver
Holmes, Charles W. 153 Varnum ave, cabinet maker
Hoole, Henry 66 Bartlett st, machinist
Hooper, George L. 7 Belmont st, insurance
Horan, John B. 109 Market st, carpenter
Horner, John P. 353 Westford st, manufacturer
Hosmer, Samuel 88 Cambridge st, supt. Lowell ter cor.
Howe, Edward S. 981 Varnum ave, farmer
Howe, Will H. 105 Jenness st, paymaster
Howell, Wakefield D. 69 Nichols st, clerk
Hoyle, Albert 124 Mt. Hope st, plumber
Hubbard, George L. 332. Varnum ave, real estate agent
Humphriss, Frederick G. 70 Smith st, watchman
Hunnewell, John A. 54 Harvard st, superintendent
Hunt, Gilbert W. 801 Stevens st, teamster
Hunt, Leonard D. 234 Cabot st, overseer
Hunt, William F. 88 Twelfth st, foreman
Huntington, Edward W. 218 Moore st, clerk
Hurd, Carl P. 22 Hoyt ave, broker

Hurd, D Glen, 97 Durant st, inventor
Husband, Thomas J. 31 Clark st, stable keeper
Hyde, Daniel 151 Humphrey st, machinist
Hyde, John J. 178 Pleasant st, toolmaker

I

Iatros, Michael 1079 Middlesex st, editor
Ingalls, George W. 334 Boylston st, bookkeeper
Inglis, John J. 52 Hampshire st, clerk
Ireland, Willard F. 775 Broadway, machinist
Irwin, John M. 83 Pine st, confectioner

J

Jalbert, Joseph 100 Fourth ave, contractor
Jameson, James A. 139 Concord st, machinist
Jean, Albert E. 800 Moody st, bank teller
Jennings, Joseph 859 Lawrence st, retired
Jennings, Thomas J. jr, 33 South Whipple st, operative
Jennison, George H. 378 East Merrimack st, dentist
Jensen, Otto 9 Loring st, receiver
Jodoin, Augustus J. 28 Campaw st, operative
Johnson, Francis 494 Lawrence st, real estate
Johnson, Franklin E. 215 Foster st, teller
Johnson, Michael J. 328 Suffolk st, organist

K

Keables, Nelson D. 14 Hoyt ave, mechanical superintendent
Kearney, John 142 Third st, inspector
Keefe, George F. 101 Beech st, stablekeeper
Keefe, James 453 Lawrence st, barber
Kelley, John A. 58 West Third st, painter
Kelley, John J. 10 Second ave, conductor
Kelley, Patrick H. 31 Claire st, L. M. S.
Kelley, Thomas F. 578 Andover st, clerk
Kelley, William A. 799 Princeton st, Lowell water works
Kelley, William M. 32 John st, janitor
Kelly, Bernard J. 1 Dracut st, mason
Kennedy, James J. 31 Marion st, liquor dealer
Kennedy, William R. 114 Warwick st, electric light trimmer
Kerwin, Edward 36 Royal st, plumber
Keyes, Charles F. 79 Sherman st, auctioneer
Kidder, Charles F. 16 Spalding st, clerk
Killpatrick, Edwin W. 360 Wilder st, clerk
Kilpatrick, John 107 South Loring st, carpenter
Kilroy, John 104 Lawrence st, insurance agent
King, Arthur F. 9 Fay st, merchant

King, John C. 69 Chestnut st, clerk
King, Francis T. 69 Chestnut st, butcher
Kingham, David 33 West Meadow road, bookkeeper
Kirby, Charles P. 16 Walnut st, machinist
Kingsbury, John M. 1087 Bridge st, meat market
Kittredge, Abner L. 101 Myrtle st, merchant
Kittredge, Horace V. 34 Third ave, mason
Knowlton, Harry W. 549 Westford st. draughtsman

L

Labrie, Eugene 2-103 Tucker st, baker
Laflamme, Gerda J. 29 Queen st, clerk
Laflamme, Sidney I. 29 Queen st, collector
Lafleur, Frederick 37 Second ave, barber
Lafleur, Harvey A. 18 West Meadow road, collector
Lambert, Arthur J. 1 Litchfield Terrace, clerk
Lamontague, Adolphe 809 Moody st, merchant
Lamontague, Octave 811 Moody st, merchant
Lamoureux, Auseline 78 Mt. Washington st, tailor
Lamoureux, Frederick A. 52 Mammoth road, hardware dealer
Landry, Adelard 68 Mt. Hope st, bartender
Lane, James J. 65 St. James st, watchman
Langevin, Felix D. 37 B st, machinist
Lannan, Dennis H. 182 Merrimack st, clerk
Lappen, John P. 7 State st, machinist
Laroche, Elzear J. 216 Hildreth st, reporter
Latham, Frank W. 72 Walnut st, clerk
Latour, Peter 15 Gershom ave, loomfixer
Laurin, Carl G. 40 Lundberg st, stonecutter
Lavallee, Henry 75 Gershom ave, jeweler
Lavallee, Joseph H. 20 Lombard st, clerk
Lavallee, Rosario 75 Gershom ave, jeweler
Lavoie, Arthur 1 Regina place, grocer
Law, Fred 32 State st, clerk
Lawler, Thomas H. 72 Hanks st, treasurer
Lawrence, Abbott 53 Berkley ave, jeweler
Leahey, Edward T. 1012 Central st, clerk
Leary, Daniel M. 423 High st, dyer
Leary, Daniel J. 118 Mt. Washington st, plumber
Leary, Dennis J. 786 Broadway, machinist
Leary, Jeremiah F. 18 Brown st, janitor
Leavitt, George E. 20 Lombard st, foreman
Lebrun, Zachary J. B. 56 Boisvert st, clerk
LeCam, John F., 30 Haines ave, stenographer
LeCam, Joseph H. 30 Haines ave, clerk
L'Ecuver, Joseph Hector 8-502 Moody st, clerk
Lee, Bernard F. 6 Dane st, foreman
Lee, Michael A. 92 Bartlett st, carpenter
Lee, Thomas C. 455 High st, life and fire insurance

Leighton, James H. 41 Sixth st, insurance
 Lelacheur, Jean B. 199 Mt. Hope st, merchant tailor
 Lennon, Thomas E. 84 Mt. Washington st, liquor dealer
 Leonard, Terrance D. 112 Concord st, clerk
 Lewis, Edward J. Abbott st, painter
 Lewis, Fred O. 47 Oakland st, druggist
 Libby, Charles F. 69 Robbins st, superintendent
 Libby, Oliver C. 399 Stevens st, printer
 Libby, David D. 162 Sanders ave, carpenter
 Light, Daniel 9 Kimball ave, gardener
 Litch, Joseph W. 586 Bridge st, clerk
 Little, Edwin F. 815 Moody st, stock broker
 Livingston, Cornelius S. 208 Branch st, paymaster
 Long, Dennis A. 610 Andover st, publisher
 Long, Osmond 92 Jenness st, bookbinder
 Loranger, Louis 37 Bowers st, clerk
 Lozeau, Napoleon M. 28 White st, clerk
 Loupret, Napoleon J. 278 High st, photographer
 Luce, Ransom H. 24 Clifford st, beltmaker
 Lull, George E. 11 Nesmith st, merchant
 Lunan, Albert E. 33 Humphrey st, ice cream maker
 Lussier, Ferdinand, 83 Lilley ave, operative
 Lussier, Rosario 83 Lilley ave, clerk
 Lussier, William O. 6 Morey place, Salem st, machinist
 Lynch, Michael J. 15 Second ave, janitor
 Lynch, Thomas J. 27 Crowley st, insurance
 Lyons, John K. 7 Westford st, pin maker
 Lyons, Murthey 25 Cross st, clerk

M

MacBrayne, Lewis E. 6 Belmont st, journalist
 Mack, Martin T. 18 Lenton court, lunch cart prop.
 Mackenzie, Daniel W. 505 Wilder st, salesman
 Magee, John J. 353 Lawrence st, grocer
 Maguire, Hugh 62 West Third st, bartender
 Maguire, John E. 35 Mead st, ins. agt.
 Maguire, Thomas F. 22 Varney st, solicitor
 Mahon, Thomas 116 Coburn st, engineer
 Major, Frank A. 60 Rea st, secondhand
 Maloney, Michael J. 81 School st, coachman
 Mangan, Thomas J. 74 Chambers st, Bleachery
 Manseau, J. Calixte, 172 School st, furnishings
 Manseau, Vidal Z. 269 Appleton st, clerk
 Mansfield, George F. 306 Wilder st, bookkeeper
 Mansfield, William S. 12 White st, preserves
 Mansur, Ezra E. 11 Fernald st, real estate
 Mansur, William L. 52 Clitheroe st, clerk
 Marchand, Joseph P. 18 Sargent st, machinist
 Marden, Philip S. 11 Fairview st, editor

Marden, Robert F. 68 Clark road, reporter
Marin, Joseph 793 Merrimack st, real estate
Markham, Michael J. 142 Chapel st, liquor dealer
Marshall, Arthur H. 538 Varnum ave, farmer
Martell, Arthur J. 52 Crawford st, music teacher
Martell, Hormidas J. 799 Moody st, supt. wire works
Martin, Edward F. 543 Gorham st, grocer
Martin, Mizael, 2-00 Moody st, tailor
Martin, William F. 125 Nesmith st, tailor
Matte, Thomas 23 Endicott st, clerk
Mathison, Charles W. 61 Tolman ave, manufacturer
May, Thomas 23 School st, gate tender
Maynard, Myron A. 63 Norcross st, overseer
McAleer, James E. 129 Llewellyn st, clerk
McAllister, Melvin F. 197 Appleton st, shipping clerk
McAloon, Fred F. 14 Pleasant st, weaver
McAloon, John B. 112 Sixth st, weaver
McAloon, William F. 311 High st, musician
McAlvin, Henry J. 132 Westford st, clerk
McCaffrey, John H. 186 Pleasant st, carpet weaver
McCann, Arthur 981 Central st, insurance agent
McCann, Patrick 412 Lincoln st, dresser
McCarthy, James F. jr. 28 Butterfield st, clerk
McCarthy, Patrick H. Westford st. at city line, butcher
McCarty, John 15 Fay st, machinist
McCormick, John E. 108 Livingston ave, clerk
McCurdy, Albert G. 295 Stevens st, printer
McElholm, William H. 465 Westford st, plumber
McEvoy, Ed. T. 181 Moore st, druggist
McGauvran, William H. 656 Bridge st, clerk
McGee, Thomas J. 810 Varnum ave, janitor
McGenniss, James 23 Read st, insurance
McGilly, Patrick 112 Concord st, wool sorter
McGlinchey, Jeremiah 48 Chapel st, liquor dealer
McGlinchey, John 970 Gorham st, driver
McGovern, Patrick 32 Bartlett st, shoe clerk
McGregor, Fred G. 275 Foster st, auctioneer
McGrevey, James M. 13 Burns st, water department
McHugh, Michael 73 Fletcher st, clerk
McHugh, William E. 31 Nineteenth st, carpenter
McIntire, George E. 605 Wilder st, machinist
McIntosh, George A. 90 Chestnut st, mechanic
McKenna, George B. 13 Cosgrove st, undertaker
McKeon, James E. 184 Chelmsford st, clerk
McKinnon, Murdock 17 Bleachery st, marketman
McMahon, Frank 539 Chelmsford st, machinist
McMahon, Joseph F. 456 Chelmsford st, plumber
McMaster, Frank E. 62 Inland st, carpenter
McNabb, James S. 106 Pleasant st, laundryman
McNabb, John H. 108 Pleasant st, laundryman

McOsker, Thomas F. 23 Huntington st, cashier
 McOsker, Paul H. 209 Stackpole st, student
 McQuaid, Arthur F. 482 Rogers st, loomfixer
 McQuaid, Michael 65 Pleasant st, laborer
 McQuesten, Albert W. 118 D st, clerk
 Meagher, Dennis J. 11 Fay st, foreman
 Mealey, Frank L. 509 School st, stencil cutter
 Meaney, Joseph 45 Laurel st, engineer
 Meehan, Edward J. 289 Concord st, teamster
 Meehan, Joseph P. 228 Worthen st, clerk
 Mellor, George H. 366 Westford st, overseer
 Mercier, Ernest B. 38 Dalton st, baker
 Mercier Louis, 141 Meadow road, merchant
 Merrill, Frank M. 156 Tenth st, selling agent
 Merritt, William H. 262 Concord st, drummer
 Mevis, George B. 58 Methuen st, clerk
 Miller, Joseph H. 284 Fletcher st, clerk
 Mirault, Alexander 5 Varney st, music teacher
 Miskella, James F. 56 Hanks st, student
 Mitchell, James W. 79 Mt. Washington st, carpenter
 Molloy, Andrew 339 Riverside st, overseer
 Monahan, Patrick R. 38 West Fifth st, teamster
 Mongeau, George E. 444 Fletcher st, merchant
 Mooney, Michael J. 203 Moore st, brakeman
 Mooney, William H. 203 Moore st, clerk
 Morin, Joseph U. 812 Merrimack st, merchant
 Morris, Thomas F. Jr. 76 West Third st, druggist
 Morse, Robert A. 347 Dutton st, shipping clerk
 Muldoon, Owen 259 Branch st, coachman
 Mullaney, Michael 483 Broadway, plumber
 Mulligan, Thomas J. 92 Pleasant st, newspaper
 Mullin, Leon 232 Moore st, coal dealer
 Mullin, Joseph 232 Moore st, merchant
 Mulno, Harry O. 1037 Lawrence st, assistant superintendent
 Murphy, Frank B. 221 Foster st, ins. and real estate
 Murphy, James A. 82 Hanks st, overseer
 Murphy, Thomas F. 189 Parker st, plumber
 Murphy, Thomas J. 26 Oxford st, clerk
 Murray, Frank 86 Fourth ave, blacksmith
 Murray, Justin J. 19 Dempsey place, insurance
 Muzzey, Walter L. 25 Fort Hill ave, salesman
 Myers, James W. 104 South Whipple st, clerk

N

Naylor, Charles 250 Wentworth ave, chemist
 Nelson, George A. 3 Astor st, civil engineer
 Nestor, Patrick F. 9 Alder st, lamplighter
 Nolan, John H. 117 Fulton st, janitor

Normandin, Charles 12 Decatur st, tailor
Normandin, Zephirin A. 767 Merrimack st, clothing dealer
Novell, Maurice H. 3-449 Moody st, barber
Noyes, Fred W. 62 Lane st, railroad clerk
Nudd, Chandler B. 81 Bellevue st, insurance
Nugent, Michael 13 L st, operative

O

Oates, William 30 Crawford st, machinist
O'Brien, Daniel J. 90 Park View ave, clerk
O'Brien, John J. 124 High st, coachman
O'Brien, John J. 399 Worthen st, foundryman
O'Brien, Patrick 175 Broadway, laborer
O'Connor, John J. 298 Riverside st, contractor
O'Connor, Maurice 635 Market st, laborer
O'Connor, Michael J. 900 Gorham st, clerk
O'Connor, Thomas F. 823 Lawrence st, agent
O'Dowd, Henry J. 388 High st, carriage dealer
O'Dwyer, Jeremiah J. 148 Midland st, conductor
O'Flahavan, James Colonial ave, cor Plymouth, real estate
O'Hare, Frank 29 Bassett st, bartender
O'Hare, James 27 Ellsworth st, teamster
O'Hare, John P. 167 Warren ct, carpet weaver
O'Heir, Octavien, G. I 68 Lane st, merchant
Ort, John J. 26 Broadway, blacksmith
Osterhout, Fred S. 28 Bellevue st, retired
O'Shea, Michael, 214 Concord st, machinist
O'Sullivan, Humphrey 105 Butterfield st, mfg. rubber heels
O'Sullivan, James 105 Mt. Washington st, shoe dealer

P

Paige, Charles D. 45 Thirteenth st, auditor
Palmer, Forrest E. 51 Osgood st, bookkeeper
Palmer, Samuel B. 394 Beacon st, produce dealer
Paradis, J. Horace 23 Bellevue st, clerk
Paradis, Jean M. 28 Orford st, bartender
Paradis, Peter 56 Royal st, barber
Park, Albert S. 28 Riverside st, driver
Parker, Charles A. 13 Second st, painter
Parker, Percy 880 Broadway, capitalist
Parker Stanley M. 370 Chelmsford st, clerk
Parthenais, David A. 30 Phillips st, clerk
Patten, Henry N. 235 Mammoth road, bookkeeper
Pearson, George F. 24 Grace st, clerk
Peltier, Edmund 801 Moody st, laborer,
Peltier, Willis J. 803 Moody st, jeweler
Penn, William Henry 262 London st, builder

Perham, George L. 53 Lamb st, provisions
 Perley, George E. 37 Varney st, bank teller
 Perreault, David 20 Fernald st, jeweler
 Person, Nils 105 London st, carpenter
 Peters, William B. 16 Bryant st, clerk
 Phaneuf, Louis N. 46 Shaffer st, inspector of charity board
 Phelps, Archibald S. 50 Lamb st, machinist
 Pickering, A. Edward 4 Bertram st, manager knitting mill
 Pickering Samuel A. 34 Hastings st, carpenter
 Pihl, Carl G. A. F. W. E. 45 Fay st, foreman
 Pinder, Albert L. 457 Lawrence st, carpenter,
 Plante, Edmund 115 Acton st, driver
 Plummer, Rufus W. 39 Norcross st, engineer
 Poirier, George 11 Willie ave, inspector
 Pollard, Harry G. 95 Mansur st, merchant
 Potter, William H. 261 Gibson st, cigar and tobacco dealer
 Powers, John T. 51 Claire st, clerk
 Preble, George A. 96 Fort Hill ave, secondhand
 Prescott, Fred M. 68 Mt. Washington st, clerk
 Preston Charles R. 335 Thorndike st, civil engineer
 Preston James F. 403 Andover st, treasurer
 Prince, Arthur D. 5 Simpson st, merchant
 Proctor, Charles S. 187 Hovey st, paper dealer
 Provost, Joseph 27 Queen st, janitor
 Putnam, Addison 325 Rogers st, merchant
 Putnam Alonzo 19 Eighth ave, salesman
 Putnum, Frank E. 1210 Middlesex st, restaurant proprietor
 Putnam, Lewis A. 19 Eighth ave, clerk

Q

Queenan, Eugene C. 5 Harrison st, clerk
 Quigley, John M. 39 Carter st, teamster
 Quinn, Michael 14 Fort Hill ave, fruit dealer
 Quinn, Thomas F. 30 Weed st, steam fitter
 Quirbach, Henry C. 142 Gorham st, cigar maker
 Quirk, William 185 Adams st, laborer

R

Racette, John 32 Pawtucket st, manufacturer
 Rafferty, Michael T. 36 Cedar st, hack driver
 Rafter, Thomas B. 12 Walker st, motorman
 Ramsdell, Daniel W. 94 D st, foreman
 Randlett, Fred M. 110 Westford st, fish dealer
 Ranlett, Orrin B. 2d. 95 Sanders ave, grocer
 Ray, George H. 17 Oak st, upholsterer
 Read, George G. jr. 14 Belrose ave, grocer
 Ready, William B. 32 Philips st, barber
 Reagan, William 1165 Lawrence st, grocer

Reardon, Patrick 95 Dummer st, laborer
 Redding, Daniel 45 Adams st, grocer
 Redmond, James J. 3 Masterson's yard, clerk
 Reinstema, Torsten 43 Sidney st, woolsorter
 Regan, Michael J. 21 Clare st, motorman
 Reidy, Martin H. 172 School st, manager Lowell Sun
 Reilly, Peter W. 137 Hovey st, printer
 Reynolds, Bernard 174 Fourth ave, barber
 Rhodes, Arthur A. E. 524 Westford st, hairdresser
 Rhodes, Benjamin 12 Oak st, manufacturing
 Ricard, Francois Xavier 420 Fletcher st, jeweler
 Richards, Edward S. 794 Merrimack st, brakeman
 Richards, John B. 770 Moody st, clerk
 Richards, Joseph L. 794 Merrimack st, knitter
 Richards, Lyman H. 129 Crawford st, carpenter
 Richardson, Edward J. 75 Moore st, clerk
 Richburg, William H. 13 Robert st, shoe cutter
 Riddick, Herbert C. 74 A st, clerk
 Riley, Charles 65 Chestnut st, barber
 Riley, Luke J. 21 Sixth st, room 10, barber
 Riley, Philip 124 High st, mattress maker
 Riordan, Warren 58 Second ave, secretary
 Roach, Henry A. 158 Mt. Vernon st, retired
 Robert, Arthur R. 4 Arthur ave, carpenter
 Robert, Vital 33 Fifth ave, carpenter
 Robertshaw, Henry 33 Warnock st, wool sorter
 Robertson, John L. 470 Andover st, furniture dealer
 Rogers, Charles B. 192 Cumberland road, clerk
 Rogers, Francis J. 23 Fay st, operative
 Rogers, James H. 563 Bridge st, optician
 Rogers, John F. 29 Cedar st, undertaker
 Rooney, John J. 151 Cabot st, superintendent
 Rountree, Alexander E. 96 Wentworth ave, salesman
 Rourke, Fred H. 777 Central st, coal dealer
 Rousseau, Donat 185 Salem st, clerk
 Rousseau, Napoleon C. 160 Hall st, merchant
 Rowland, Charles T. 5 Belmont st, wholesale grocer
 Royal, Garrett G. 362 Broadway, operative
 Runels, George H. 240 Gibson st, real estate
 Russell, James B. 59 Nesmith st, clerk
 Russell, John L. 17 Victoria st, manager
 Ryan, Albert J. 61 Bellevue st, real estate
 Ryan, Jeremiah 785 Broadway, tinsmith
 Ryan, Patrick J. 1 Goward ct, clerk
 Ryan, Thomas S. 42 Sidney st, printer

S

Sabourin, David 15 Perrin st, pattern maker
 Safford, Arthur T. 30 Talbot st, engineer
 Salmon, Edward A. 18 Phillips st, overseer

Sanborn, Fred W. 44 Fred st, carpenter
Sanborn, Warren F. 260 Mansur st, foreman
Sanderson, George W. 173 Stackpole st, clerk
Sargent, George A. 49 Andover st, lineman
Sarre, Leon E. 842 Varnum ave, picture framing
Saunders, Arthur W. 18 Georgia ave, shuttle manufacturer
Saunders, Thomas A. 325 Mammoth road, undertaker
Sawyer, Orrin A. 134 Walker st, inventor
Scoble, Joel M. 118 London st, diamond setter
Scott, George N. 238 Chelmsford st, woodworker
Scribner, George A. 158 Westford st, machinery dealer
Shannessy, George W. 180 Grand st, wheelwright
Sharf, Charles 205 School st, candy store
Shedd Freeman B. 396 Andover st, real estate
Sheehy, James 3 Pleasant st, provision clerk
Shepard, Charles H. 202 Merrimack st, tailor
Shepard, Charles S. 254 Park View ave, steam fitter
Sherman, Arthur W. 46 Burtt st, clerk
Sherman, Leonard F. 148 Princeton st, shoe manufacturer
Sherwell, William M. 2 Barton ave, paymaster
Sherwood, Frank J. 79 Vernon st, glue manufacturer
Shields, William H. 627 Chelmsford st, carpet weaver
Sicard, Armand T. 720 Moody st, shoemaker
Silcox, Samuel 19 Robert st, machinist
Silver, Fred W. 94 South Loring st, machinist
Simpson, John A. 67 Methuen st, mason and contractor
Smart, Charles E. 104 D st, grocer
Smith Charles P. 314 Nesmith st, real estate
Smith, Chester F. 250 Foster st, travelingman
Smith, Henry A. 12 Belmont st, insurance
Smith, Henry 233 Fayette st, barber
Smith, Lorenzo E. 122 Mammoth road, city employee
Smith, Omer J. 162 Fourth ave. janitor
Smith, Orange V. 812 Stevens st, machinist
Smith, Percy S. 104 Gershom ave, barber
Smith, Thomas M. 184 Tenth st, clerk
Smith, Walter N. 36 State st, weaver
Smith, Walter S. 782 Merrimack st, clerk
Smithson, Angelo L. 26 Ash st, overseer
Somerset, Alfred J. 104 Woodward ave, clerk
Somerset, James S. 104 Woodward ave, janitor
Southam, Brook 13 Cambridge place, shipper
Spalding William B. 1 Centre st, real estate
• Speirs, James A. 715 Chelmsford st, overseer
Spencer, Charles A. 643 Westford st, sign painter
Sprague, L. Kirk 120 Sprague ave, mason
Stanley, Harry L. 135 Beacon st, coal dealer
Stanton, John B. 23 Newhall st, wool sorter
Staples, George N. 50 Sixth st,
Stevens, Almon P. 43 Hildreth st, janitor

Stevens, Oliver 38 Wentworth ave, broker
Stevens, Winslow B. 18 Arthur st, carpenter
Stewart, John W. 45 Thirteenth st, plumber
Stickney, Frederick W. 53 Third st, architect
Stover, Charles L. 209 Nesmith st, manufacturer
Stowell, Charles H. 99 Fairmount st, manager
Stuart, Frank 79 Fort Hill ave, engraver
Sturtevant, Augustus L. 32 Brookside st, clerk
Sullivan, Cornelius 180 Broadway, barber
Sullivan, Daniel 99 Andrews st, merchant
Sullivan, Eugene P. 84 Maple st, primer
Sullivan, Richard H. 28 Franklin st, teamster
Swan, Albert J. 23 Congress ave, druggist
Swapp, Andrew G. 307 Pawtucket st, paymaster
Sweatt, Albion 62 Eighteenth st, carpenter
Sweet, Melvin O. 157 Shaw st, machinist
Sykes, Richard 9 Rockingham st, overseer
Sylvester, Walter R. 90 Westford st, pattern maker

T

Talbot, Harry L. 15 Fairview st, traveling salesman
Tansey, John F. 10 Alder st, coachman
Taylor, Samuel 12 Chase ave, watchman
Theriault, Frederick 259 White st, machinist
Thibodeau, William W. 158 Riverside st, grocer
Thissell, Walter F. 109 Mansur st, hardware
Thomas, Charles R. 725 Stevens st, upholsterer
Thomas, John 45 Tolman ave, carpet weaver
Thompson, James A. 68 Grove st, box manufacturer
Thompson, Perry D. 126 Fort Hill ave, lumber operator
Thompson, Samuel H. 121 School st, hardware store
Thomson, John A. 89 Eighteenth st, hardware dealer
Thorpe, James 100 Riverside st, treasurer Glass Co.
Thurston, Albert E. 90 Whitney ave, superintendent
Thurston, Charles E. 24 Lane st, teamster
Tighe, John 11 Dutton st, insurance agent
Tilton, Frederick N. 57 South Walker st, janitor
Tilton, George F. 252 Lincoln st, retired
Toupin, Hercule A. 320 Hildreth st, druggist
Tracy, James H. 281 Concord st, laborer
Trull, William T. 823 Andover st, manager
Turcotte, Homer L. P. 526 Moody st, asst. janitor
Turcotte, Louis P. 22 Riverside st, liquor dealer
Turgeon, Louis G. 386 Fletcher st, drug clerk
Turner, Clarkson H. 23 Perrin st, foreman Gas Co
Tyrrell, John E. 483 Lawrence st, provision dealer

V

Varnum, Thomas 476 Varnum ave, farmer
Veevers, Miles 23 Lenox st, clerk
Vigeant, Paul 48 Riverside st, grain dealer
Vigneault, Edmond J. 476 Moody st, clerk
Vigneault, Rodolphe J. 118 Gershom ave, foreman
Voisard, Hector 56 Mt. Hope st, clerk

W

Wadleigh, Jude C. 305 Andover st, mill agent
Walker, George L. 86 Sherman st, butcher
Walker, Hugh G. 18 Pihl st, clerk
Walker, John J. 22 Lyon st, janitor
Walker, Thomas C. 80 Chestnut st, druggist
Walmsley, John 534 Central st, clerk
Walsh, John F. 5 Watson st, salesman
Washburn, John M. 266 Pine st, salesman
Weaver, Frank L. 479 Westford st, gravel roofer
Wedge, Arthur P. 372 Parker st, real estate
Webster, Herbert E. 251 Foster st, salesman
Weight, Francis W. 29 Second ave, machinist
Weilbrenner, Arthur 132 Branch st, clerk
Welch, Frederick F. 466 Fletcher st, furniture repairer
Welch, John 445 High st, plumber
Welch, Richard J. 543 Andover st, plumber
Welch, William F. 34 Cedar st, carpenter
Welcome, Ashley A. 349 Dutton st, second hand
Westall, William E. 290 East Merrimack st, merchant
Weston, Charles F. 32 Colonial ave, belt maker
Westwood, John S. 26 A st, druggist
Whelan, Charles B. 84 Cambridge st, foreman
Whelton, Matthew 288 Westford st, wine clerk
Whipple, S. Foster 40 Berkley ave, advertising manager
Whitcomb, Irving 48 South Walker st, clerk
Whitcomb, Winfield 13 Puffer st, clerk
White, Edward C. 291 Concord st, tailor
White, John F. 79 Llewellyn st, clerk
White, William T. 86 Belmont ave, manufacturer of leather
Whittet, Charles A. 71 Robbins st, superintendent
Whittet, David W. 34 Wentworth ave, carpenter
Whittier, Stephen T. 26 Hanks st, paymaster
Whitworth, Albert 31 Sidney st, clerk
Wiggin, Burton H. 1010 Middlesex st, contractor
Wiggin, Frank B. 76 Canton st, bookkeeper
Wilder, Charles W. 291 Wilder st, provisions
Wilder, Edward T. 1000 East Merrimack st, teller
Wilder, Wesley M. 6 Coral st, hay and grain dealer
Wilder, William H. 187 Pleasant st, woolen weaver

Wilder, William F. 20 Huntington st, plumber
Williams. Henry J. 354 Pine st, engineer
Williams, Charles M. 100 Livingston st, banker
Wilmot, Joseph 847 Moody st, teacher
Wing, Charles H. 795 Stevens st, merchant
Wilson, Charles V. 89 Westford st, foreman
Winn, John J. 29 South Whipple st, mattress maker
Wirt, Edward R. 258 Wentworth ave, salesman
Woodworth, Henry P. 15 Hawthorne st, box maker
Wolcott, Frank P. 199 Mammoth road, master mechanic
Worthen, George E. jr. 27 Forrest st, clerk
Wotton, Charles A. 26 Loring st, hay and grain dealer
Wright, Frank B. 57 Willow st, carpenter
Wyman, Randall T. 150 Church st, lodging house
Wyman, Stephen T. 185 Stackpole st, city library

Y

Yorke, Joseph B. 13 Oakland st, insurance
Young, Charles F. 627 Central st, decorator
Young, Charles M. 411 Stevens st, undertaker

J. OMER ALLARD, Chairman
HUGH C. McOSKER,
GEORGE C. EVANS,
STEPHEN FLYNN,

Board of Registrars of Voters

